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Flora Nottinghamiensis,

OR A

SYSTEMATIC ARRANGEMENT

OF THE

PLANTS,

GROWING NATURALLY IN THE COUNTY OF

NOTTINGHAM;

WITH THEIR

LINNÆN AND ENGLISH NAMES,
GENÉRIC AND SPECIFIC CHARACTERS
IN LATIN AND ENGLISH,
PLACES OF GROWTH,

AND

TIME OF FLOWERING.

BY THOMAS ORDOYNO,

Nurseryman and Seedsman, Newark.

NEWARK;

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1807.

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Mrs. SHERBROOKE,

OF

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IN THE COUNTY OF NOTTINGHAM,

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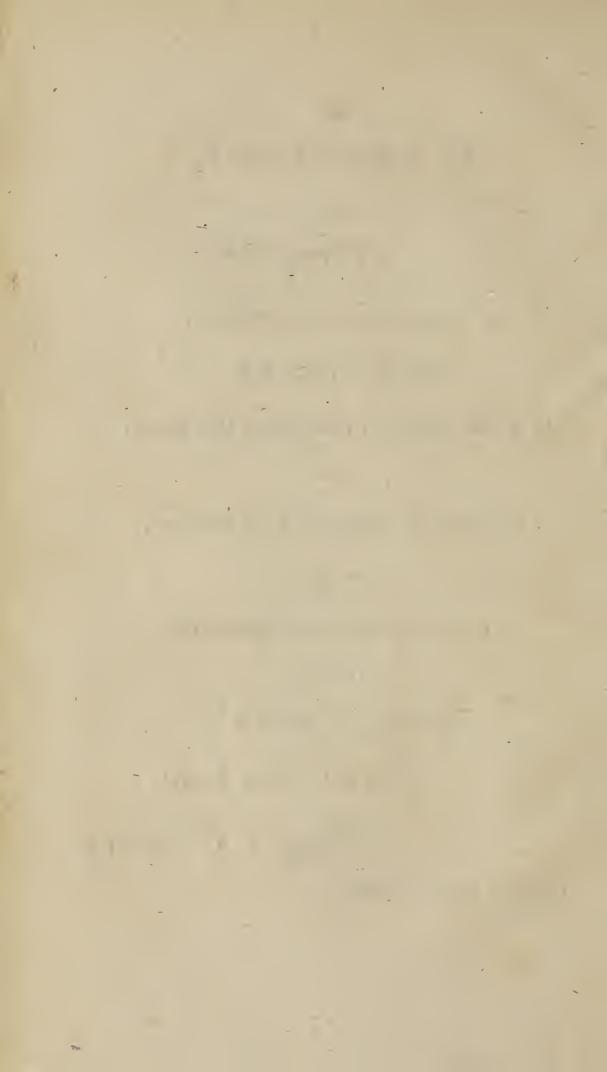
IN THE

SCIENCE OF BOTANY.

By her obedient Servant,

Thomas Ordoyno.

NEWARK, August 5th, 1807.



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PREFACE.

Full many a flower is born to blush unseen,

And waste its sweetness on the desert air.--
GRAY.

BOTANISTS have invariably been accustomed to publish national or provincial Floras, according to the extent of those limits within which their personal researches have been exercised. In no country however, has indigenous Botany been prosecuted with more elaborate investigation than in Great Britain. We can adduce the venerable names of Ray, Dillenins, Hudson, Lightfoot, Withering, Curtis, Relhan,

Sibthorpe, and others; but above all, of Smith, whose English Botany, and Flora -Britannica, are, independent of his previous celebrity, sufficient to establish his title to unrivalled pre-eminence.—Even Notting-HAMSHIRE has not been destitute of a naturalist, to record the history of her vegetable inhabitants; nearly a century has elapsed, since Deering published his "CATALOGUE " OF PLANTS NATURALLY GROWING ABOUT. " NOTTINGHAM;" and although the busy hand of human industry has, in the lapse of time, altered the face of nature, and expelled many of these inoffensive tribes from the habitations, which they formerly occupied, still they are not extirpated; they are, even at this day, to be discovered, by their diligent votaries, in those sheltered assylums, where cultivation has not invaded the privacy of their sequestered retreat.—Thither would I conduct your steps, animated by the desire of introducing you to this aboriginal race, many of whom have eluded the observation of Deering, my predecessor, to

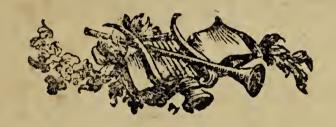
whose merits I shall be disposed occasionalally to pay that tribute, to which they are deservedly entitled.

The generic and specific characters in Latin are extracted from the Flora Britannica, to which I must on every occasion refer you: those in English are taken from "WITHER-"ING'S Botanical Arrangement of British " Plants," a work valuable to all, but inestimable to those who are unacquainted with the Latin language. It would have been easy to have substituted my own translation, but obvious reasons have induced me to prefer the plan which has been adopted: -With the assistance of these excellent authors, the BRITISH BOTANIST will obtain all the information of which he is solicitous. In their society he must pursue his studies within the house; the Flora Nottinghamiensis is intended as his companion in the field.— As such, it is presumed, that it will be found an acceptable manual to all, whom MEDICINE, AGRICULTURE, Or AMUSEMENT, may incite

to the acquirement of an intimate acquaintance with the plants, indigenous to the County of Nottingham, and the situations in which they are to be found. Many of both sexes, have, I am well aware, successfully dedicated their attention to the attainment of similar objects.—From these, I will venture to solicit communications, which, with their permission, I shall gratefully acknowledge in a supplement to the Flora Nottinghamiensis.

Before I conclude, I feel it incumbent upon me to express my gratitude to those, who have honoured this volume with their patronage; to the owners of those lands, upon which I have, at any time, inoffensively trespassed; to Dr. Buck of Newark, for the liberality with which he has, on all occasions, communicated with me on these subjects, and for the discovery of many rare plants;—to Mr. Ordono of Coddington, under whose instruction, I acquired the rudiments of this science;—and more patticu-

larly to the Rev. J. T. Becher of Southwell, at whose suggestion this work was undertaken; and to whom I stand indebted for the form which this publication now assumes, as well as for that unreserved assistance, which has effected the solution of every difficulty that occurred in the progress of this undertaking.



ERRATA ET CORRIGENDA.

PAGE 93. dele "frequent, Southwell; Newark." and read "very rare." I have not heard that this plant has been found in any part of this County, except in the ditches by the side of some small gardens at the foot of Nottingham Castle Rock, where two or three plants were discovered, about six years ago, by the Rev. J. T. BECHER.

FLORA

NOTTINGHAMIENSIS.

Classis I.

MONANDRIA.

Smith. page 1. Withering. page 1.

Stamen 1.

MONOGYNIA.

Stylus 1.

* Angiospermæ.

1 Flowers with stamens, and flowers with pistils on the

CHARA. Bacca polysperma.

CHARA. MALE. Calyx none.

FEM. Calyx 4 leaves. Summit 3-cleft. Seed 1,

2 MONANDRIA. MONOGYNIA. Chara.

0.007, 9.87, 11

STABLES.

DIGYNIA.

Styli 2.

CALLITRICHE. Cal. nullus. Petala 2. Semina 4. nuda.

CALLITRICHE, Cal. none. Bloss. 2 petals. Capsule 2-celled.

1. MONANDRIA.

1. MONOGYNIA.

CHARA. Smith. page 4. Withering. page 2.

Cal. nullus. Cor. nulla. Anthera sessilis. Stylus nullus. Bacca polysperma.

MALE. Calyx none. Anther at the base of the germen.

FEM. Cal. 4-leaved. Summits 5-cleft. Seed 1.

vulgaris. C. inermis, striata, foliis subulatis articulatis. C. Stems smooth: leaves toothed on the inner side.

COMMON CHARA. STONEWORT. STINKING WATER HORSETAIL. Ditches and pools; in the old gravel pits near Kirklington Mill. A. July, Aug.

hispida. C. sulcata, foliis subulatis articulatis, foliolis verticillatis, aculeis caulinis setaceis deflexis.

B. C. major subcincrea fragilis. Raii Syn. 132.

C. tomentosa. Withering. page 2. C. prickles on the stem, egg-shaped.

RITTLE STONEWORT. Ditches and pools; in the olay pits, near Mapperly brick-kilns.

Deering. p. 54.

11 DIGYNIA.

CALLITRICHE. Smith. 8. Withering. 5.

Cal. nullus. Petala duo. Stigmata acuta. Semina quatuor, compressa, nuda, hinc marginato-alatá.

Flores aliquot monoici.

Cal. none. Petals 2. Seeds 4; naked, with a membranaceous border on one side.

Callitriche. aquatica.

C. verna. Upper leaves oval; not notched at the end. Withering. 5.

WATER STARWORT. VERNAL STARGRASS. Ditches, ponds, and very slow streams; frequent. April---Oct.

B. Callitriche autumnalisa

C. All the leaves strap shaped, cloven at the end. Flowers hermaphrodite.

LONG WATER STARWORT. AUTUMNAL STAR-GRASS. Ditches and still waters; frequent. A. Sep.



Classis II.

DIANDRIA.

Smith. 11. Withering. 8.

Stamina 2.

1. MONOGYNIA.

Stylus 1.

* Flores inferi, monopetali, regulares.

1 Blossom 1 regular petal; beneath.

LIGUSTRUM. Cor. quadrifida. Bacca tetrasperma

LIGUSTRUM. Bloss. 4-cleft. Berry 4-seeded.

FRAXINUS. Cor. nulla, aut quadripartita. Cap. compressa, disperma.

FRAXINUS. Calyx none; or with 4 divisions. Bloss. none; or of 4 petals. Seed 1, spear-shaped.

* * Flores interi, monopetali, irregulares, angiospermi.
2 Bloss. irregular. Seeds in a capsule.

VERONICA. Cor. quadripartita, rotata,

VERONICA. Bloss. border with 4 divisions, lower fegment the narrowest. Caps. inversely heart-shaped.

PINGUICULA. Cor. ringens, calcarata. Cal. quinquefidus.

PINGUICULA. Bloss. gaping, ending in a spur. Cal. 5 cleft.

UTRICULARIA. Cor. ringens, calcarata. Cal. diphyllus.

UTRICULARIA. Bloss. gaping, ending in a spur. Cal. 2 leaves.

* * * Flores inferi, monopetali, irregulares, gymnospermi.

3 Bloss. irregular. Seeds naked.

LYCOPUS. Cor. subæqualis. Stam. distantia.

LYCOPUS, Bloss. nearly regular. Stam. wide apart.

SALVIA. Cor. ringens. Filamenta transverse pedicellata.

SALVIA. Bloss. gaping. Filaments fixed across a pedicle.

* * * * Fl. superi.
4 Flowers Superior.

CIRCÆA. Cor. dipetala. Cal. diphyllus.

CIRCÆA. Cal. 2 leaves. Bloss. 2 petals inversely heart-shaped.

DIGYNIA.

Styli. 2.

ANTHOXANTHUM. Cal. gluma unissora, bivalvis. Cor. gluma bivalvis, aristata.

ANTHOXANTHUM. Calyx, husk with one flower; oblong. Bloss. 2 husks; awned.

11 DIANDRIA. 1 MONOGYNIA.

LIGUSTRUM. Smith. 12. Withering. 10.

Cor. quadrifida. Bacca supera, bilocularis, tetrasperma.

L. Bloss. 4-cleft. Berry with 2 cells, 2 feeds in each cell:

vulgare. L. foliis elliptico-lanceolatis obtusis mucro-nulatis.

L. Leaves egg-shaped, blunt: panicle with 3 divisions.

PRIVET. PRIM. PRINT. Hedges in gravely soils; not uncommon. Southwell. Newark. S. May, June.

FRAXINUS. Smith. 12. Withering. 57.

Cal. nullus, aut quadripartitus. Cor. nulla, aut quadripartita. Caps. supera, bilocularis, superne foliacea, compressa. Sem. solitaria, pendula.

Flores aliquot fæminei.

Cal. none, or with 4 divisions. Bloss. none, or with 4 petals.

Fem. and hermaphrodite flowers. Pist. 1. Caps. 2-celled, leaf-like upwards, compressed; 1 cell barren. Seeds spear-shaped.

F. Cal. none, or with 4 divisions. Bloss. none, or with 4 petals.

excelsior. F. foliolis serratis, floribus calyce corollaque destitutis.

F Leafits serrated: flowers without petals.

COMMON ASH TREE. Woods and hedge rows.

T. Ap, May.

CIRCAA Smith. 13. Withering. 10.

Cor. dipetala. Cal diphyllus, superus. Caps. bilocularis. Sem solitaria

Bloss. 2 petals. Cal 2 leaved, superiour.

C. caule erecto, foliis ovatis denticulatis lutetiaopacis pubescentibus. na.

C. Stem upright: bunches several: leaves eggshaped. Linn. somewhat serrated: rough with hair. Gmell. Leaves egg-spear-shaped, hairs somewhat servated.

ENCHANTER'S NIGHT-SHADE. COMMON EN-CHANTER'S WORF. Woods; moist hedge bottoms; in shady knes; not uncommon. Southwell; Halam Hills; and in the following woods; Eperston, Oxton, Colwick, Wernham, Kirklington.

P. June, July.

VERONICA. Smith. 15. Withering. 11. Cor. quadrifido, rotata, lacinia infima angustiore. Caps. supera, bilocularis.

Blossom border 4-cleft; the lower segment narrowest. Capsule 2-celled; notched at the end.

* Spicatæ.

1 Flowers in spikes.

V. spicis lateralibus pedunculatis, foliis op. officinapositis scabris, caule procumbente. lis.

V. spikes on lateral fruit stalks: leaves oppofite: stem trailing.

COMMON SPEEDWELL. MALE SPEEDWELL. FLUELLIN. On barren sandy ground, heaths, lanes, and moors; Coddington and Langford, near 'ewark; Edingley gravel-pits; Kirkby; Broxtow Woods.

P. May---August.

8 DIANDRIA. MONOGYNIA. Veronica.

- * * Corymboso-racemosæ.

 2 Flowers in a bunch like corymbus.
- serpylli- V. racemo terminali subspicato, foliis ovatis felia. subcrenatis trinerviis glabris, capsula obcordata stylo breviore.
 - V. Bunch terminating, somewhat spike-like: leaves egg shaped, smooth, scolloped, 3-fibred. Stamens hardly longer than the blosfom.
 - SMOOTH SPEED WELL. PAUL'S BETONY. Meadows and pastures; not uncommon. Southwell, Newark.

 P. May, June.
- Becca- V. racemis lateralibus, foliis ellipticis planis, bunga. caule repente.
 - V. Bunches lateral: leaves egg-shaped, flat: fem creeping.
 - BROOKLIME. Slow shallow streams; and near springs that seldom freeze. Southwell; Newark.
 P. June, July.
- Anagallis. V. racemis lateralibus oppositis, foliis lanceolatis serratis, caule erecto.
 - V. Bunches lateral; leaves spear-shaped, serrated: stem upright.
 - WATER SPEED WELL. LONG-LEAVED BROOK-LIME. Slow streams and shallow ponds; near the bridge on the road from Southwell to Upton; in Fiskerton lane; in a ditch near Bucklow's peppermint garden, at Southwell. P. June---August.
- seutellata. V. racemis lateralibus alternis: pedicellis divaricatis, foliis linearibus denticulatis.
 - V. Bunches lateral; thinly set with flowers,

wide spreading, alternate: little fruit-stalks pendant: leaves very entire, strap-shaped.

NARROW LEAVED SPEEDWELL. MARSH SPEEDWELL. In low marshes, on poor boggy soils; Oxton Bottoms; in a low swampy close, by the road side, near Papplewick water-mill; on Edingley moors; Farnsfield carr; ditches on Coddington moor.

P. June --- August.

- V. racemis lateralibus, foliis ovatis sessilibus Chamarugosis inciso-serratis, caule bifariam piloso. drys.
- V. Bunches lateral; leaves egg-shaped, sitting, wrinkled, toothed; stem with 2 opposite rows of hairs.
- WILD GERMANDER. GERMANDER SPEED-WELL Pastores and sides of hedges; dry banks: common. Southwell; Newark. P. May.

* * * Floribus solitariis.
3 Fruit-stalks with one flower.

- V. floribus solitariis, foliis ovatis inciso serra-agrestis. tis pedunculo brevioribus, caulibus pro-cumbentibus, seminibus urceolatis.
- V. Flowers solitary: leaves heart-shaped, on leaf stalks, shorter than the fruit-stalks.
- GERMANDER CHICKWEED. PROCUMBENT
 SPEEDWELL, Pastures and ploughed fields; common: Southwell; Newark.

 A. April.
- V. Floribus solitariis, foliis ovatis inciso-ser- arvensis. ratis: floralibus lanceolatis pedunculo longioribus, caule erecto.
- V. Spike terminating: leaves heart-shaped, sitting: floral leaves spear-shaped, longer than the flowers.
- WALL SPEEDWELL. SPEEDWELL CHICK-WEED. On old walls; amongst rubbish and fallow fields; common.

 A. May.

10 DIANDRIA. MONOGYNIA. Pinguicula.

- hederæ-V. floribus solitariis, foliis cordatis planis quinquelobis, laciniis calycinis cordatis, seminibus urceolatis.
 - V. Flowers solitary: leaves heart-shaped, flat, 5-lobed.
 - SMALL HENBIT. IVY CHICKWEED. IVY LEAVED SPEED WELL. Hedge banks, ploughed fields, and kitchen gardens: very common.

A. April---Sept

- PINGUICULA. Smith. 26. Withering. 18.
- Cor. ringens, calcarata. Cal. bilabiatus, quinquefidus. Caps. supera, unilocularis.
- Bloss. gaping, ending in a spur. Cal. 2-lipped, 5-cleft. Capsule 1 cell.
- vulgaris. P. nectario cylindraceo acuto longitudine petali, capsula ovata.
 - P. Nectary cylindrical, as long as the petal.
 - COMMON BUTTERWORT. YORKSHIRE SANI-CLE. On bogs, and low marshy grounds. In a close at Halam beck, near Southwell; on Edingley moors, Oxton stews, and Basford scottum. P. May, June.
 - UTRICULARIA. Smith. 28. Withering. 19.
 - Cor. ringens, calcarata. Cal. diphyllus, œqualis: Caps. supera, unilocularis:
 - Bloss, gaping, ending in a spur. Calyx 2 leaves, equal. Capsule 1 cell.
- vulgaris. U. nectario conico, scapo paucifloro.
 - U: Nectary conical; stalk with few flowers:
 - HOODED WATER MILFOIL. GREATER BLAD-DER SNOUT. Wet ditches and stagnant waters. somewhat rare. In old gravel pits, near Kirklington Mill; and in the lake at Thurgarton Priory, the seat of J. G. Cooper, Esq.; at the bottom end of Muskham Fleet, near Newark.

 P. July.

DIANDRIA. MONOGYNIA. Lycopus 11

U. nectario carinato brevissimo obtuso.

minor.

U. Nectary keel-shaped.

LESSER BLADDER SNOUT. Ditches and muddy ponds. rare. Eddingley Moor. P. July.

LYCOPUS. Smith. 29. Withering. 20.

Cor. quadrifida: lacinia unica emarginata. Stam. distantia. Sem. quatuor, nuda, retusa:

Bloss. 4-cleft; 1 segment notched at the end. Stamens distant: Seeds 4, blunt.

L. foliis sinuato-serratis:

europæus.

L. Leaves indented, and serrated:

water Horehound. Gypsie. Wort. Sandy ground, and on banks of streams and ponds; ditches; banks of the Greet, at Southwell; ditches near the road from Newark to Kelham, and towards Averham meadow; Edingley Moor.

P. July---Sept.

SALVIA. Smith. 30. Withering. 21.

Cor. inæqualis: Filamenta transverse pedicello affixa. Sem. quatuor, nuda.

Bloss, gaping. Filaments fixed transversely to a little foot stalk:

S. foliis serratis sinuatis læviusculis, corrol- verbelis calyce angustioribus:

naca.

S. leaves indented, serrated, smoothish, blossom more slender than the calyx.

WILD ENGLISH CLARY: MEADOW SAGE. Meadows and pastures, and hedge banks by road sides; about Nottingham Castle; hedge bottoms in Farndon lane, near the Spring House, Newark. P. June---Oct.

11 DIGYNIA.

ANTHOXANTHUM. Smith. 31. With. 58.

Cal. gluma bivulvis, uniflora, Cor. gluma bivulvis, aristata. Semen unicum:

Cal. Husk of 2 valves, and 1 slower. Bloss. husk 2 valves, tapering to a point. Seed 1.

odora- A. spica ovato-oblonga, flosculis subpeduntum. culatis arista longioribus:

A: Spike oblong-egg-shaped: florets longer than the awns, supported on short fruit stalks.

GRASS. Meadows and pastures; common.
P. May, June.



Classis III.

TRIANDRIA.

Smith. 32. Withering. 60.
Stamina 3.

MONOGYNIA.

Stylus 1.

* Flores superior.

VALERIANA. Cor. quinquesida, basi gibba. Sem. 12

- VALERIANA. Bloss. 5-cleft; bulging at the base. Seed 1.
- CROCUS. Cor. sexpartita, æqualis. Stigmata convo-
- CROCUS. Bloss. resembling 6 petals, upright, open. Summits rolled in a spiral; coloured.
- IRIS. Cor. sexpartita, petalis alternis reflexis. Stigmata petaliformia.
- IRIS. Bloss. with 6 divisions; 3 outer segments reflected. Summits like petals.
 - ** Flores inferi, glumacei. Semen unicum.
- 2 Flowers with valves like grasses, and husk-like calyx es. Hermaphrodite.

- SCHŒNUS. Glumæ paleaceæ, congestæ; exteriores steriles. Sem. subrotundum.
- SCHŒNUS. Bloss. none. Cal. chaffy scales, in bundles. Seed roundish: (lower scales barren Scop.)
- SCIRPUS. Gluma paleacea, undique imbricata.
- SCIRPUS. Bloss. none. Cal. chaffy scales, tiled. Seed naked or woolly: 3-cornered: (Hairs shorter than the Calyx. HALLER. All the scales fertile. Scop.)
- ERIOPHORUM. Glumæ paleaceæ, undique imbricatæ. Sem. lana longissima cinctum.
- ERIOPHORUM. Bloss. none. Cal. chaffy scales, tiled. Seeds woolly. (Hairs longer than the callyx. HAL.)
- NARDUS. Cal. nullus. Cor. Gluma bivalvis.
- NARDUS. Bloss. 2 valves. Cal. none. Seed cover-ed.

DIGYNIA.

Styli 2.

* Calyces uniflori, vagi.

1 GRASSES. Flowers scattered; 1 in each calyx.

ALOPECURUS. Cal. bivalvis. Cor. univalvis, apice simplici.

ALOPECURUS. Cal. 2 valves: Bloss. 1 valve, undivided at the end. Nectary none.

- PHLEUM. Cal. bivalvis, truncatus, acuminatus, sessilis.
- PHLEUM. Cal. 2 valves; lopped, dagger-pointed sitting.
- AGROSTIS. Cal. bivalvis; valvis acutis, corolla brevioribus. Stigmata plumosa.
- AGROSTIS. Cal. 2 valves: valves acute, shorter than the blossom: (in all the English species longer.)
- DACTYLIS. Cal. bivalvis, compressus; valva majori carinata.
- DACTYLIS. Cal. 2 valves: valves concave, keeled.

 * * Calyces biflori, vagi.
 - 2 GRASSES. Flowers scattered; 2 in each calyx.
- AIRA. Cal. bivalvis. Flosculi absqué rudimento interjecto.
- AIRA. Florets, all hermaphrodite, without the rudiment of a third. Cal. 2 valves.
- MELICA. Cal. bivalvis, sub-biflorus; rudimento tertii flosculi interjecto.
- MELICA. Florets, all hermaphrodite. Cal. 2 valves. Nectary of 1 leaf, fleshy.
- HOLCUS. Cal. bivalvis. Cor. aristata. Flosculo altero masculo, apetalo.
- HOLCUS. Flowers hermaphrodite and male: Cal. husk 2 valves, with 1 to 3 florets.

M. Bloss. awned.

F. Bloss. awnless 1. Seed 1.

* * * Calyces multiflori, vagi.

FRASSES. Flowers scattered, severa l'in each calyx.

- BRIZA. Cal. bivalvis. Cor. ventricosa, valvis cordatis, obtusis. Semen corollæ adnatum.
- BRIZA. Cal. 2 valves. Bloss. heart-shaped, valves blunt, bellying.
- POA. Cal. bivalvis. Cor. valvis ovatis, acutiusculis, muticis.
- POA. Cal. 2 valves. Bloss. egg-shaped, valves sharpish.
- FESTUCA. Cal. bivalvis. Spicula oblonga, teretiuscula; glumis acuminatis.
- FESTUCA. Cal. 2 valves. Bloss. oblong: valves sharp-pointed.
- BROMUS. Cal. bivalvis. Spicula oblonga; glumis sub apice aristatis, interiore ciliata.
- BROMUS. Cal. 2 valves. Bloss. oblong; outervalve with an awn fixed below the point.
- AVENA. Cal. bivalvis. Cor. gluma teretiuscula, dorso aristata. Arista contorta.
- AVENA. Cal. 2 valves. Bloss. oblong; valves with a jointed awn upon the back.
- ARUNDO. Cal. bivalvis. Flosculi lana persistente cincti.
- ARUNDO. Cal. 2 valves. Bloss. awnless, woolly at the base.
- * * * * Spicati, receptaculo communi scrobiculato.
- 4. GRASSES. Flowers forming a spike, on a long and slender receptacle.
- LOLIUM. Cal. monophyllus, fixus, multiflorus.
- LOLIUM. Involucrum 1 leaf, containing 1 many-flowered spiket.

TRITICUM. Cal. bivalvis, solitarius, multiflorus.
Rachis dentata.

TRITICUM. Cal. containing many florets.

CYNOSURUS. Cal. bivalvis, solitarius, multiflorus.

Receptaculum proprium unilaterale, foliaceum.

CYNOSURUS. Cal. 2 valves, containing many flowers. Valves strap-shaped, tapering to a point, equal. Nectary of 2 leaves.

HORDEUM. Cal. bivalvis, ternus, uniflorus.

HORDEUM. Involucrum of 6 leaves, containing 3 florets. Flowers simple.

TRIGYNIA.

Styli 3.

MONTIA. Cal. diphyllus. Cor. monopetala. Caps. trivalvis, trisperma.

MONTIA. Bloss. 1 petal. Cal. 2 leaves.

111 TRIANDRIA.

1 MONOGYNIA.

VALERIANA. Smith. 37. Withering. 65.

Cal. nullus. Cor. monopetala, basi hinc gibba, supera. Semen 1.

Cal. none. Bloss. 1 petal, superior,; bulging on one side at the base. Seed 1, or else a 3-celled capsule.

- dioica. V. floribus triandris dioicis, foliis radicalibus ovatis; caulinis pinnatis.
 - V. Stameniferous, and pistilliferous flowers on different plants; leaves winged; leafits very entire: (somewhat serrated.) Stameniferous plants; with imperfect pistils.
 - SMALL, or MARSH VALERIAN. In moist meadows and marshes; not uncommon. Parks at Southwell; Oxton Bottoms; Basford Scottum. P. May, June.
- V. floribus triandris, foliis omnibus pinnatis: officifoliolis lanceolatis subuniformibus. nalis:
 - V. Leaves all winged and toothed.
 - GREAT WILD VALERIAN. Hedges, woods, and marshes: common. Parks at Southwell; Halam Bottoms; Edingley Hill. P. June.
- Locusta. V. floribus triandris, caule dichotomo, foliis lineari-lingulatis obtusis.
 - V. Stem forked; leaves strap-shaped, very entire.
 - CORN SALLAD. LAMB'S LETTUCE. Banks and corn fields. Southwell; Newark; Mansfield; Nottingham. A. April.
 - CROCUS. Smith. 39. Withering. 69. Cor. sexpartita, æqualis, supera, tubo longissimo. Stigmata convoluta, erosa. Spatha univalvis, radicalis.
 - Bloss. with 6 equal divisions. Summits coiled.
- vernus C. stigmate incluso trifido: lobis cuneiformibus incisis.
 - C. Sheath of one leaf radical; tube of the corolla very long: stigma, in three short wedge-Shaped lobes, within the flower. ENGLISH BOTANY. 344.

- SPRING, or GARDEN CROCUS. In meadows: very rare. In Nottingham Meadows; plentifully. In the FLORA BRITTANNICA, Dr. Smith acknowledges his having received this plant from Mrs. Sherbrooke, of Oxton. P. April.
- C. stigmate incluso trisido: lobis multisido- nudilaciniatis penicillisormibus, slore aphyllo. slorus.
- C. Sheath of one leaf, radical: tube of the corolla very long, leafless; stigma, in three deeply laciniated segments, enclosed within the flower. English Botany. 491.
- NAKED FLOWERED CROCUS. In meadows; very rare. Between Nottingham Castle and the Trent. The Rev. J. T. Becher, of Southwell, ascertained this plant to be a distinct species, and it was immediately admitted as such by Dr. Smith. The fact, however, has since been indisputably confirmed by Mr. Ordon, of Coddington, who has raised both this and the preceding species from seeds. For more than a century these beautiful plants have enamelled the Nottingham Meadows; and the Colchicum Commune, of Deering, proves, according to Mr. Becher's suggestion, to be our Crocus Nudificans. P. Oct.
- IRIS. Smith. 41. Withering. 69.
 Cor. sexpartita, supera; petalis alternis reflexis.
 Stigmata petalifornia.
- Bloss. with 6 divisions, unequal, every other fegment bent back as if jointed. Summits petal-like, 2-lipped, edges at the base turned in:
 - I. corollis imberbibus: petalis interioribus stig- Pseudamate minoribus, foliis ensiformibus. corus.
- I. Every other segment of the bloffom smaller than the summit.

to TRIANDRIA. MONOGYNIA. Schænus.

- YELLOW IRIS. WATER FLOWER DE LUCE. Banks of rivers; marshes and wet meadows. Averham Meadow; Newark; Osmanthorpe; Southwell; Basford Scottum; Nottingham Meadow. P. July.
- SCHENUS. Smith. 42. Withering. 79. Glumæ paleaceæ, congestæ, exteriores steriles. Cor. nulla. Semen unicum, subrotundum, inter glumas.
- Husks chaff-like, of 1 valve, crowded. Bloss. none. Seed 1; roundish, within the husks.
- nigri- S. culmo tereti nudo, capitulo ovato, involucans. cri diphylli valvula altera subulata longiore,
 - S. Straw cylindrical, naked: spike an egg-shaped head: involucrum two-leaved, 1 valve, awl-shaped, long.
 - BLACK BOG RUSH. Bogs and marshes. Edingley P. June.
- com- S. culmo teretiusculo nudo, spica disticha pressus. involucro monophyllo breviore; spiculis multifloris, foliis planis.
 - S. Straw roundish, but tending to 3-cornered: naked: spikets in 2 opposite rows. Involucrum 1 leaf: florets with 1 husk.
 - COMPRESSED BOG RUSH. Turf bogs; not common. In the Parks at Southwell. P. July.
 - SCIRPUS. Smith. 48. Withering. 73. Glumæ paleaceæ, undique imbricatæ. Cor. nulla. Semen unicum.
 - Husk chaff-like, tiled on every fide. Bloss. none. Seed 1, 3-cornered, often woolly: Hairs shorter than the spike.

TRIANDRIA MONOGYNIA. Eriophorum. 21

* Spica unica.

1 Spike single.

Bleocharis

- S. culmo tereti basi vaginato, spica subovali palustris terminali, glumis acutis, radice repente.
- S. Straw cylindrical, naked: Spike nearly eggshaped, terminating:
- MARSH CREEPING CLUB RUSH. Banks of rivers and ditches; frequent. Edingley Moors; Oxton Bottoms.

 P. July.
 - * * Culmo tereti polystachyo.

 2 Spikes several: straw cylindrical.
- S. culmo tereti nudo, panicula cymosa decom-lacusposita terminali, spiculis ovatis. tris.
- S. Straw cylindrical, naked: spikes several, egg shaped, on fruit stalks, terminating. LINN. Calyx fringed, 3-cleft: middle segment awl-shaped.
- BULL RUSH. Rivers, pools, fens. Banks of the Trent. P. July, August.
- ERIOPHORUM. Smith. 58. Withering. 71.
- Glumæ paleaceæ, undiquæ imbricatæ. Cor. nulla. demen unicum, lana longissima cinctum.
- Husks like chaff, tiled on every side. Bloss. none. Seeds encompassed by very long wool, like hairs.
- E. culmis teretibus, foliis canaliculatis apice angustriquetris, spicis pedunculatis. __tifolium.
- E. Straw cylindrical: leaves channelled and 3-cornered: spikes on fruit-stalks.

21 TRIANDRIA. MONOGYNIA. Nardus.

COTTON GRASS. MOOR GRASS. Marshes and bogs; not uncommon. Oxton Bottoms; Farnsfield Carr; Edingiey Moors; Marshes about Mansfield; Gamston Moors; Basford Scottum. P. June.

NARDUS. Smith. 61. With. 71. Calyx nullus. Cor. gluma bivalvis.

Calyx none. Bloss. a values. Nectary none.

stricta. N. spica setacea recta secunda.

N. Spike slender, straight; the florets pointing in one direction.

MAT. GRASS. Heaths and Marshes. Sherwood Forest near Mansfield; Edingley Moor; not common.
P. June---August.

11 DIGYNIA.

PHLEUM. Smith. 68. With. 117.

Cal. bivalvis, truncatus, acuminatus, sessilis, uniflorus, corollam includens.

Cal. 2-valved, sitting, strap shaped, lopped, ending in 2 dagger points, inclosing the blossom.

pratense. P. spica cylindrica longissima, glumis dorso ciliatis arista Jongioribus.

P. Spike cylindrical, very long: calyx fringed, and awned: straw upright.

COMMON CAT'S-TAIL, TIMOTHY GRASS. Pastures; common.

- ALOPECURUS. Smith. 72. Withering. 119. Cal. bivalvis uniflorus. Cor. univalvis,.
- Cal. 2-valved. Bloss. 1 valve. Nectary none.
- A. culmo erecto lævi, spica sublobata, glumis pratencalycinis villosis basi connatis. sis.
- A. piked straw, upright: calyx hairy; blossom awned.
- MEADOW FOXTAIL. FOXTAIL GRASS. Meadows and pastures: common. P. May.
- A. culmo erecto scabriusculo, spica simplicis-agrestis sima attenuata, glumis nudiusculis basi connatis carina dilatatis.
- A. Spiked straw upright: calyx not hairy; its husks united at the base.
- SLENDER FOX TAIL GRASS. Comfields and road sides.

 P. May.
- A. culmo adscendente geniculato, spica sub- g
- A. Spiked Araw knee-jointed.
- FLOATING FOX TAIL GRASS. Marshy meadows; common. P. August.
- AGROSTIS. Smith. 77. With. 124.
- Cal. bivalvis, uniflorus: valvulis acutis. Cor: bivalvis, inæqualis, Calyce major. Stigmata plumosa:
- Calyx 1-flowered, 2-valved, spear-shaped, acute, generally rough on the keel: longer than the blossom. Bloss. 2 valves. Summits hairy.

24 TRIANDRIA. DIGYNIA. Agrostis.

* Aristatæ.

1. With awns.

- canina. A. calycibus ovatis coloratis, corolla nuda:
 arista dorsali incurva, culmis prostratis subramosis.
 - A: Calyx valves nearly equal. Blossom valves very unequal: awn jointed, twice the length of the bloffom, fixed just below its middle.

BROWN BENT GRASS. Meadows and moist pastures.

A. June.

* * Mu icæ.

2. Without awns:

- vulgaris. À. panicula patente: ramulis divaricatis capillaribus, calycibus æqualibus, petalo interiore duplo breviore retuso.
 - A. Panicle spreading, branches bare at the base: slorets numerous: calyx inner valve smooth; outer serrulated upwards: blossom inner valve but half the size of the outer; deciduous.
 - FINE BENT GRASS.' Meadows, pastures and field sides; common. Oxton road side. P. July.
- floolni- A. panicula coarctata, culmo ramoso repente, fera. floribus congestis, calycibus æqualibus lanceolatis pubescentibus.
 - A. Panicle compact, branches stiff, short, dense'y crowded with florets at the base: calyx inner valve smooth, outer only serrulated upwards.
 - CREEPING BENT GRASS. Moist meadows and pastures. P. July, August.

- A. panicula laxa, culmo repente, calycibus alba. æqualibus lanceolatis nitidis carina scabris.
- A. Panicle large, spreading: calyx, both valves ferrulated: straw trailing.

MARSH BENT-GRASS. Wet ditches, bogs, and marshes. P. July.

AIRA. Smith. 83. With. 135.

Cal. bivalvis, biflorus. Cor. bivalvis. Flosculi absque interjecto rudimento.

Cal. 2 valves; 2-flowered: without any intervening substance between the florets.

* Muticæ:

1 Florets awnless:

- A. panicula patente, floribus muticis lævibus aquatica obtusis calyce longioribus, foliis planis.
- A. Panicle expanding: florets without awns, fmooth, longer than the calyx; leaves flat.

WATER HAIR-GRASS. Margins of pools and rivers.
Ditches in Nottingham Meadow; Edingley Moors
P. June.

* Aristatæ.

2 Florets awned.

- A. foliis planis, panicula patente, petalis aris- caspitatis basi villosis: arista recta brevi: tosa.
- A. Leaves flat: panicle expanding: petals woolly, and awned at the base: awn straight, short.
- TURFY HAIR-GRASS. In moist meadows and woods; frequent. P. Junc, July.

- flexuosa. A. foliis setaceis, culmo subnudo, panicula patente trichotoma, pedunculis flexuosis, aristas geniculatis.
 - A. Leaves like bristles: straws almost naked: panicles diverging: fruit-stalks zig-zag.
 - WAVED MOUNTAIN HAIR-GRASS. Beaths and woods; Mansfield Forest. P. July.
 - pracox. A. foliis setaceis: vaginis angulatis, floribus paniculato-spicatis, flosculis sessilibus basi nudis dorso aristatis.
 - A. Leaves like bristles: sheaths smooth, angular with furrows; panicle spike-like: awn taller than the calyx.
 - EARLY HAIR-GRASS. Dry commons. Blidworth Forest. A. May, June.
 - caryo- A. foliis setaceis, panicula trichotoma divariphyllea. cata, flosculis sessilibus, arista geniculata dorsali.
 - A. Leaves like bristles: Sheathes smoothish, furrowed: panicle wide-spreading when ripe; awns taller than the calyx.
 - SILVER HAIR-GRASS. Sendy pastures. A. July. HOLCUS. Smith. 88. With. 134.
 - Cal. bivalvis, bislorus: flosculo altero masculino. Cor. bivalvis; exteriori aristata.
 - Florets hermaphrodite and male. Cal. hufh 2 valves, with 1 to 3 florets.
 - HERMAPHR. Awn twice the length of the bloffom.
 - MALE. Awn as long as the bloffom.
 - anatus. H. glumis villosis, flosculo hermaphroditico mutico, masculo arista arcuato-recurva.

- H. Husks 2-flowered, woolly; hermaphrodite floret awnless: male floret with a bent awn, inclosed in the calyx.
- MEADOW SOFT-GRASS. Meadows and pastures; common. P. June, July.
- H. glumis subæqualibus nudiusculis, flosculo mollis, hermaphroditico inferiore mutico, masculo arista geniculata, radice repente.
- H. Roots creeping; joints woolly: awn protruding out of the calyx. Curt.
- CREEPING SOFT-GRASS. Corn fields and woods. P. July, August.
- H. glumis inæqualibus glabris, flosculo her- avenamaphroditico superiore submutico, masculo ceus. arista geniculata refracta, radice nodosa:
- H. Panicled: calyx 2-flowered: male floret awned: hermaphrodite flower sometimes awn-less.
 - Avena elatior. Sp. Pl. 117. With. 163.
 - OAT-LIKE SOFT-GRASS. Meadows, pastures, and road sides. P. June, July.
 - MELICA. Smith. 91. Withering. 138.
 - Cal. bivalvis, sub-biflorus: rudimentum tertii floris inter flosculos. Cor. bivalvis.
 - Cal. 2-valved, 2-flowered, with a little subfrance, on a pedicle, betwixt the florets. Nectary 1 leaf. Stamens dilated at the base:
 - M. petalis imberbibus, panicula secunda ra-uniflomosa, floribus erectis, calyce unifloro: ra.
 - M. Panicle thinly set: calyx with 2 florets, one hermaphrodite, the other neutral.

- WOOD MELIC-GRASS. Woods and hedges. Combes Wood; Eperstone Thickets; borders of Broxtow Woods. P. May, June.
- carulea. M. petalis acutis imberbibus, panicula coarctata, floribus erectis cylindricis.
 - M. Panicle compact: flowers cylindrical; fraw without knots.

Aira cærulea. LINN.

- PURPLE MELIC-GRASS. Boggy meadows. Eding-ley Moors. P. August.
- POA. Smith. 95. Withering. 140.
- Cal. bivalvis. multiflorus. Spicula basi rotundata. Cor bivalvis, valvulis ovatis, acutiusculis, muticis.
- Cal. 2-valved, many-flowered. Spikets egg-Shaped. Valves shinny at the edge, rather acute.
- aquatica. P. panicula erecta ramosa laxa, spiculis sexfloris linearibus, flosculis obtusis septemnerviis.
 - P. Panicle spreading: spikets strap-shaped, 6-flowered.
 - REED MEADOW-GRASS. Marshes and banks of rivers. P. July.
- fluitans. P. panicula ramosa divaricata, spiculis adpressis teretibus multifloris, flosculis obtusis septemnerviis basi duplicato-nervosis.
 - P. Panicle branched, upright: spikets nearly fitting; cylindrical, awnless.

Festuca fluitans. With. 156.

FLOTE MEADOW-GRASS. Wet ditches and ponds. P. June.

Poa.

- P. panicula lanceolata disticho-secunda co-rigida. arctata glabra; rachi marginata, spiculis septemfloris, flosculis teretibus enervibus.
- P: Panicle Spear-shaped, somewhat branched: branches alternate, pointing one way: frnit-stalk bordered.
- HARD MEADOW-GRASS. Stony places and walls. Nottingham Castle; Bulwell Lime-kilus. A. June.
- P. panicula secunda coarctata, culmo adscen- comdente compresso, flosculis angulosis basi pressa. villo complicato connexis.
- P. Panicle compact: straw slanting, compressed.
- FLAT-STALKED MEADOW-GRASS. Walls, house tops, and dry places. Southwell Parks. P. July, Aug.
- P. panicula diffusa, spiculis trifloris, glumis trivialanceolatis, quinquenervibus basi villo connexis, stipula elongata.
- P. Panicle spreading; spikets 3-flowered, woolly at the base: straw upright rough: sheathscale tapering to a point. Curt.
- ROUGHISH MIADOW-GRASS. Moist meadows and pastures; very common. P. June---Sept.
- P. panicula diffusa, spiculis quadrifloris, glu-pratenmis lanceolatis quinquenervibus villo con- sis. nexis, stipula abbreviata obtusa.
- P. Panicle spreading; spikets 5-flowered, smooth: straw cylindrical, upright. LINN. Sheath-scale short and blunt. Curt.
- SMOOTH-STALKED MEADOW-GRASS. Meadows, pastures and banks; very common D 3 P. May, June.

- annua. P. panicula divaricata, spiculis ovatis, flosculis remotiusculis quinquenervibus liberis, culmo obliquo compresso.
 - P. Panicle spreading horizontally; branches in pairs: spikets mostly 4 flowered: leaves flat: sheathes smooth.
 - ANNUAL MEADOW-GRASS. Meadows, pastures and gardens. A. April---Sept.
 - BRIZA. Smith. 108. With, 148.
 - Cal. bivalvis, multiflorus. Spicula disticha: Cor. bivalvis, ventricosa, valvulis cordatis obtusis. Semen corrollæ adnatum, depressum.
 - Cal. 2-valved, many-flowered. Spiket 2-rowed. Valves heart-shaped, blunt: the inner minute.
- media. B. spiculis ovatis septemfloris, calyce flosculis breviore, stipula brevissima obtusa.
 - B. Spikets egg-shaped: calyx shorter than the florets.
 - COMMON QUAKING-GRASS. Meadows and pastures; frequent. P. July.
 - DACTYLIS. Smith. 110. With. 149.
 - Cal. bivalvis, compressus; altera valvula majore, carinata.
 - Cal. 2-valved, many-flowred; valves broader on one side. Bloss. 2 valves, inclosing the seed. Nectaries 2.
- glome- D. panicula secunda supradecomposita glorata. merata.

- D. Panicle crowded, pointing one way.
- ROUGH COCK'S-FOOT-GRASS. Meadows; common. P. June----August.
- CYNOSURUS. Smith. 111. With, 150.
- Cal. bivalvis, multiflorus. Recept. proprium unilaterale, foliaceum.
- Cal. 2-valved, many-flowered, equal. Bloss. 2-valved, 1 valve concave, longer. Nectary 2-leaved.
- C. bracteis pinnato-distichis muticis, spica cristatus simplici lineari.
- C. Floral leaves, with winged clefts.
- CRESTED DOG'S-TAIL-GRASS. Pastnres; common. P. June, July.
- FESTUCA. Smith. 113. With. 151.
- Cal. bivalvis. Spicula oblonga, teretiuscula, disticha; glumis acuminatis.
- Cal; 2-valved. Spikets oblong, roundish. Husks tapering to a point, or terminating in an awn.
- F. panicula secunda coarctata, flosculis tereti- ovina: usculis basi glabris, culmo tetragono, foliis setaceis scabris.
- F. Panicle compact, awned: straw 4-cornered, almost naked: leaves bristle-shaped.
- SHEEP'S FESCUE-GRASS. Dry barren pastures; not uncommon. P. June.
- F. panicula secunda diffusa, flosculis aristatis, duriusculmo tereti, foliis caulinis planis, radice cula: fibrosa.

32 TRIANDRIA. DIGYNIA. Festuca.

- F. Panicle oblong: Spikets oblong, Smooth: leaves bristle-shaped.
- HARD FESCUE-GRASS. Dry places. P. June.
- bromoi- F. panicula secunda erecta, flosculis subulades. tis aristatis apice scabris, foliis setaceis vagina brevioribus.
 - F. Spikets upright; fmooth: calyx valves, 1 entire, the other tapering to an awn-like point.
 - BARREN FESCUE-GRASS. On walls and sandy places.

 A. June.
- myurus. F. panicula secunda nutante elongata, flosculis subulatis aristacis apice scabris, fòliis setaceo-subcarinatis brevissimis.
 - F. Panicle spike-like, drooping: calyx smaller valve very minute: florets rough, awns very long.
 - WALL FESCUE-GRASS. Walls and dry barren places. A. May, June.
- gigantea. F. paniculà secunda nutante ramosa laxa, flosculis lanceolatis ventricosis aristatis, foliis ensiformibus nervosis.
 - F. Panicle drooping; spikets 4-flowered, shorter than the awns.
 - Bromus giganteus. With. 162.
 - TALL FESCUE-GRASS. In woods and moist hedges. Eperstone Wood. P. July, Aug.
- loliacea. F. spica disticha nutante, spiculis subsessilibus lineari-oblongis, flosculis cylindricis enervibus muticis.

- F. spiked: spikets alternate, sitting, compresed, awnless.
- SPIKED FESCUE-GRASS. Moist meadows; not very common. Southwell. P. June, July.
- F. panicula secunda erectiuscula laxa, spicu- pratenlis linearibus compressis obtusiusculis, sis. flosculis cylindricis obsolete nervosis.
- F. Panicle upright: Spikets scarcely awned; the outer ones cylindrical.
- Festuca elatior. With. 155. Var. 2.
- MEADOW FESCUE-GRASS. In meadows and moist pastures. P. June, July.
- F. panicula subdiffusa nutanțe ramosissima elatior: laxa, spiculis ovato-lanceolatis acutis, flos-culis cylindricis obsolete nervosis.
- F. Panicle upright: Spikets scarcely awned: the outer ones cylindrical.
- TALL FESCUE-GRASS. Boggy meadows, and sides of wet ditahes. P. June, July.
- BROMUS. Smith. 125. With. 159.
- Cal. bivalvis. Spicula oblonga, disticha. Arifta infra apicem. Gluma interior pectinatociliata.
- Calyx 2-valved. Spikets oblong, cylindrical, 2-rowed. Awn beneath the point.
- B. panicula patente; pedunculis subsimplici- secalibus, spiculis ovatis compressis decemfloris, nus. flosculis distinctis teretiusculis.
- B. Panicle expanding, husks naked; seeds distinct; awns shorter than the blassom, not quite straight:

TRIANDRIA. DIGYNIA. Bromus.

34

- SMOOTH RYE BROME-GRASS. Meadows and pastures; not common. Southwell. A. July.
- mollis. B. panicula erecta coarctata; pedunculis ramosis, spiculis ovatis, flosculis imbricatis depressis nervosis pubescentibus.
 - B. Panicle rather upright; leaves very foft and woolly: awn about the length of the bloffom.
 - SOFT BROME-GRASS. Cornfields, pastures and hedge banks. B. June.
- asper. B, panicula nutante ramosa, flosculis lanceolatis teretiusculis subenervibus, foliis uniformibus: inferioribus hirsutis.
 - B. Panicle drooping, rough; spikets hairy, awned: leaves rough. LINN. Spikets slender, 10-flowered: sheaths of the leaves hairy. Curt.
 - HAIRY WOOD BROME-GRASS. Moist woods and hedges. Eperstone Wood. A. or B. July.
- stibus. B. panicula nutante subsimplici, flosculis lanceolatis nervosis sulcatis, foliis pubescentibus.
 - B. Panicle spreading; spikets oblong: florets 2-rowed; calyx taper-pointed. LINN. Awns very long.
 - BARREN BROME-GRASS. Woods and hedges; frequent. A. June, July.
- Sylva- B. spica simplici nutante secunda, spiculis ticus. sessilibus teretiusculis, aristis gluma longibribus, foliis pilosis.

B. Spikets fitting; straw undivided: awns as long as the blossiom.

Festuca sylvatica. With. 158.

SLENDER WOOD BROME-GRASS. Woods and hedges. Kirklington. P. July.

AVENA. Smith. 139. Withering. 163.

Cal. bivalvis, multiflorus. Cor. valvula exterior dorso aristata; arista contorta.

Calyx 2-valved; many-flowered. Awn from the back of the bloffom, twifted.

A. paniculata, calicibus subtrifloris, flosculis fatua. basi pilosis omnibusque aristatis enervibus.

A. Panicled: calyx 3-flowered, all the florets awned, and harry at the base.

WILD OAT. HAVER. Cornfields. Southwell. A August.

A. panicula erecta subsimplici, calycibus sub- pubescens trifloris, receptaculis barbatis, foliis planis pubescentibus.

A. Panicle spike-like; calyx 3-flowered; bloffoms bearded at the base: leaves flat, downy.

DOWNY OAT-GRASS. Chalky meadows and pastures. P. June.

A. spića erecta, calycibus subquinquefloris, pratenreceptaculis pilosis involutis serrulatis nudis. sis.

A. Panicle Spike-like: calyx 5-flowered.

NARROW-LEAVED OAT-GRASS. Chalky meadows and pastures. Bulwell. P. July.

A. panicula ramosissima laxa, calycibus sub-flavescens trifloris inæqualtbus, receptaculis pilosis, foliis planis subpubescentibus.

36 TRIANDRIA. DIGYNIA. Arundo:

A, Panicle loose: calyx 3-flowered, short: all the florets awned.

YELLOW OAT-GRASS. Meadows and pastures. P. June, July.

ARUNDO. Smith. 145. Withering. 166.

Cal. bivalvis. Flosculi lana persistente cincti.

Cal. 2-valved: Bloss. awnless, surrounded with down at the base.

Phrag- A. calycibus quinquefloris, panicula laxa. mites. A. Calyx 5-flowered: panicle spreading.

COMMON REED. Rivers, lakes and ditches. P. July.

Calama-A. calycibus unifloris corolla longioribus, pagrostis. nicula erecta diffusa, floribus sparsis erectis foliis linearibus.

A. Panicle stiff and straight: bloffoms small, hairy at the base; leaves flat.

Calamagnostis Epigejos. With. 129.

8MALL REED. Moist woods and hedges. By the side of a bridle road, leading from Radley near Southwell, to Eperstone Woods.

P. July.

LOLIUM. Smith. 148. With. 167.

Cal. monophyllus, fixus, multiflorus. Flosculi distichi.

Cal. 1 leaf, fixed, many flowered. Spikets alternate.

perenne. L. spica mutica; spiculis calyce longioribus flosculis lanceolatis.

L. Spike awnless: Spikets compressed, many-flowered, longer than the calyx.

- PERENNIAL DARNEL. RED DARNEL. RAY-GRASS. Meadows, pastures, and road sides; frequent. P. June.
- L. spica aristata, spiculis calyce brevioribus, temuflosculis ellipticis, culmo superne scabro. lentum.
- L. Spikets awned, compressed, many-flowered; not longer than the calyx: straw rough.
- BEARDED DARNEL. Ploughed lands. Southwell.
 A. July
- HORDEUM. Smith. 155. Withering, 170. Cal. lateralis, bivalvis, ternus, uniflorus.
- Cal. lateral, 2-valved, 1-flowered; 3 together.
- H. flosculis lateralibus masculis aristatis, glu-murinum. mis calycinis intermediis lanceolatis ciliatis.
- H. Lateral florets male; awned, smooth on the keel; involucrum of the intermediate florets fringed.
- WALL BARLEY. MOUSE BARLEY. WAY
 BENNET. Walls and road sides: common.
 A. April---August.
- H. flosculis lateralibus masculis brevius pratense. aristatis, glumis calycinis omnibus setaceis scabris.
- H. Lateral florets male, awnless: involucrum bristle-shaped, rough.
- MEADOW BARLEY. Moist meadows and pastures. P. June.
- TRITICUM. Smith. 158. With. 172.
- Cal. bivalvis, solitarius, multiflorus, in rachi flexuosa, dentata.
- Cal. 2-valved, solitary, mostly 3-slowered. Florets bluntish

38 TETRANDRIA. DIGYNIA. Montia.

- repens: T. calycibus subulatis, multinervibus, quinquefloris, flosculis acuminatis, foliis planis, radice repente.
 - T. Calyx 4-flowered, awl-shaped, tapering to a point: leaves flat.
 - CREEPING WHEAT-GRASS. COUCH-GRASS. Hedges; very common. P. June.
- caninum. T. calycibus acuminatis subquinquenervibus quadrifloris, flosculis aristatis, foliis planis, radice fibrosa.
 - T. Calyx pointed, mostly 4-flowered: awns longer than the blossom: spikets upright.
 - FIBROUS, OR BEARDED WHEAT-GRASS. Woods and hedges, in a chalky soil. Southwell. P. July.

III TRIGYNIA.

MONTIA. Smith. 161. With. 175.

Cal. diphyllus. Cor. monopetala, irregularis. Caps. unilocularis, trivalvis, trisperma.

Calyx 2 leaves. Bloss. 1 petal, irregular. Caps. 1-celled, 2-valved.

fontana. MONTIA.

المكاف

CHICK WEED. BLINKS. Springs and watery places. Coddington Moors; Oxton Bottoms; Edingley Moors. A. April, May.

Classis IV.

TETRANDRIA.

Smith. 165. Withering. 178.

Stamina 4.

MONOGYNIA.

Stylus 1.

- * Fl. monopetali, monospermi, superi.
- 1 Flowers of 1 petal and 1 seed; superior: 1NCORPORATED.
- DIPSACUS. Cal. communis polyphyllus, foliaceus; proprius superus. Pappus cyathiformis:
- DIPSACUS. Cal. common, leafy. Receptacle conical; chaffy. Seeds like little pillars.
- SCABIOSA. Cal. communis polyphyllus; proprius superus, duplex.
- SCABIOSA. Cal. common, of many leaves. Receptacle convex, somewhat chaffy. Seeds crowned, rolled in a cover.
- SANGUISORBA. Cal. uniflorus, inferus. Cor. su-

- SANGUISORBA. Bloss. flat. Cal. 2-leaves. Caps. 4-corned, between the cup and the bloffom.
 - * * Fl. monopetali, dispermi, superi.
 - 2 Flowers of 1 petal; superior; and 2 berries. STARRY.
- GALIUM. Cor. plana. Fructus siccus:
- GALIUM. Bloss. flat. Fruit nearly globular. Florets all hermaphrodite.
- ASPERULA. Cor. tubulosa. Fructus muticus.
- ASPERULA. Bloss. tubular. Fruit nearly globular.
- SHERARDIA. Cor. tubulosa. Fructus coronatus. Sem. tridentata.
- SHERARDIA: Bloss. tubular. Fruit crowned. Seeds with 3 teeth.
 - * * * Fl. monopetali, polyspermi, inferi.
 - 3 Flowers of 1 petal; beneath the germen.
- PLANTAGO. Cor: refracta. Caps. bilocularis, circumscissa.
- PLANTAGO. Bloss. bent back as if broken. Cal. with 4 divisions. Caps. 2 cells; cut round.
 - * * * * Fl. tetrapetali.
 - 4 Flowers of 4 petals; above the germen.
- CORNUS. Nectaria nulla. Drupa infera, bilocularis.
- CORNUS. Cal. 4-toothed; deciduous. Drupa a nut with 2 cells.
 - * * * * * Fl. apetali.
 - 5 Flowers incomplete, beneath the germen.

PARIETARIA. Cal. quadrifidus. Semen calyce tectum.

PARIETARIA: Flowers hermaphrodite, and female. Cal. 4-cleft. Seed 1; elongated.

ALCHEMILLA. Cal. octofidus. Semen nudum.

ALCHEMILLA. Cup. with 8 clesis. Seed 1; in-closed in the cup.

TETRAGYNIA.

Styli 4.

ILEX. Cor. monopetala. Bacca tetrasperma.

ILEX. Bloss. 1 petal. Cal. 4-toothed. Berry with 4 feeds.

SAGINA. Pet. 4. Caps. unilocularis.

SAGINA. Bloss. 4 petals. Cal. 4 leaves. Caps. with 4 cells, and many feeds.

RADIOLA. Pet. 4. Cal. multifidus. Caps. octolocularis, octovalvis.

RADIOLA. Bloss. 4 petals. Cal. many-clefted: Caps. with 8 cells, and 8 valves.

POTAMOGETON. Pet. 4. Cal. nullus. Sem. 4. nuda.

POTAMOGETON. Bloss. none. Cal. 4 leaves. Sceds 4: sitting.

IV TETRANDRIA.

1 MONOGYNIA.

DIPSACUS. Smith. 168. With. 182.

- Cal. communis polyphyllus: proprius superus, monophyllus. Receptaculum paleaceum. Pappus cyathiformis.
- Cal. common many-leaved: proper superior. Receptacle chaffy.
- sylvestris. D: foliis oppositis serratis, paleis rectis, involucris inflexis capitulo longioribus.
 - D. Leaves in opposite pairs, united at the base: chaff straight.
 - WILD TEASEL. Hedges and ditch banks; frequent. Southwell; Newark.
 - pilosus. D. foliis petiolatis appendiculatis, involucris deflexis capitulo æqualibus.
 - D. Leaves on leaf stalks, with appendages at the base.
 - SHEPHERD, SROD. SMALL TEASEL. In hedges; rare. Flintham Wood; Eperstone Wood; Hedge near Thurgarton, on the road to Nottingham. P. August.
 - SCABIOSA. Smith. 170. With. 183.
 - Cal. communis polyphyllus: proprius duplex, superus. Recept. paleaceum, sive nudum.
 - Cal. common many-leaved: proper double, supersor. Recept. naked or chaffy. Seed wrapped in the proper cup.

TETRANDRIA. MONOGYNIA. Sherardia. 43

- S. corollulis quadrifidis æqualibus, foliis cau- succisa. linis dentatis, floribus subglobosis.
- S. Bloffoms 4-cleft, equal: stem undivided: branches approaching: leaves spear-egg-shaped.
- DEVIL'S-BIT SCABIOUS. Fields and pastures; frequent. Southwell; Edingley Moor. P. June---. Aug.
- S. corollulis quadrifidis radiantibus, foliis pin- arvenfis. natifidis incisis, caule hispido.
- S. Blossoms 4-cleft, radiating: leaves wing-cleft, jagged: stem rough, with strong hairs.
- FIELD SCABIOUS. Pastures and corn fields. Beaconfield; Newark. P. July, August.
- S. corollulis quinquesidis radiantibus, foliis columradicalibus ovatis lyratisve crenatis: cauli-baria. nis pinuatisidis: laciniis linearibus.
- S. Blossoms 5-cleft, radiating: root-leaves simple, scolloped: stem-leaves compound.
- SMALL SCABIOUS. Dry hilly pastures, on a calcareous soil. Mansfield. June----September.
- SHERARDIA. Smith. 171: Withering. 185.
- Cor. monopetala, infundibuliformis, supera. Semina duo, tridentata:
- Bloss. 1 petal, funnel-shaped, long. Seeds 2, naked, crowned by the calyx.
- S. foliis omnibus verticillatis, floribus termina-arvensis.
- S. All the leaves in whirls: flowers torminating.
- BLUE SHERARDIA, or LITTLE FIELD-MAD-DER. Corn and fallow fields; common. Coddingtou; Newark; Southwell; Farnstield. A. May---Seqt.

14 TETRANDRIA. MONOGYNIA. Asperula.

ASPERULA. Smith. 172. Wyhering. 185. Cor. monopetala, intundibulifortnis, supera. Semina duo, globosa

Bloss. 1 petal, funnel-shaped. Seeds 2. globu-lar, like cork.

lis pedunculatis, fructu hispido.

A. Leaves 8 in a whirl, spear-shaped: flowers in bundles, on fruit-stalks.

SWEET WOODRUFF, or WOODROOF. Woods and shady pieces. In the following woods; Combes, Eperstone, Oxton, Flintham, Ossington, Broxtow, Eakring Brail, Loundes; and in the thickets near Oxton Toll-bar.

P. May.

GALIUM. Smith. 173. With. 186.

Cor. monopetala, plana, supera. Semina duo, subrotunda.

Bloss. 1 petal, bell-shaped, short. Seeds 2, nearly globular, beneath; tike cork.

* Fructu glabro.

1 Seeds smooth.

crucia-G. foliis quaternis ovatis hirsutis, caule supertum. ne simplici piloso, pedunculis lateralibus diphyllis.

Valantia cruciața. LINN.

G. Stem hairy, only branched at the base: leaves hairy, egg-shaped, 4 in a whirl: fruit-fulks with 2 or 3 leaves.

CROSS-WORF. MUG-WEED. Hedge banks; common. P. May.

palustre. G. foliis quaternis obovatis inæqualibus obtusis, caulibus disfusis superne ramosis.

- G. Leaves unequal, strap-spear shaped, smooth, entire, blunt 4, 5, or 6 in a whirl; stems rough, spreading, branched upwards.
- WHITE WATER BED-STRAW. Moist meadows and commons. On Coddington and Langford Moors. P. July.
- G. foliis senis lanceolatis retrorsum serrato- uligiaculeatis mucronatis rigidis, corollis fructu nofum: majoribus.
- G. Leaves in sixes, spear-shaped, dagger-pointed, stiff, bowed backwards: serratures prickly: blossoms larger than the fruit:
- ROUGH MARSH BED-SLRAW. Meadows, pastures, and wet heaths. Parks at Southwell: Coddington Moors. P. July, Aug.
- G. foliis octonis linearibus sulcatis integerri-verum; mis scabris, floribus paniculatis congestis.
- G. Leaves 8 in a whirl, strap-shaped: flower-ing branches short.
- YELLOW BED STRAW. CHEESE RENNET.
 Sides of fields and roads; frequent. Southwell; Newark.
 P. July. August.
- G. foliis octonis ellipticis obtusiusculis mu- Molluge cronatis margine scabris, floribus paniculatis divaricatis.
- G. Leaves 8 in a whirl, egg-flrap-shaped, dagger pointed: somewhat serrated, greatly expanded: stem feeble: branches greatly expanding.
- GREAT HEDGE BED-STRAW. Hedges and heaths; frequent. Southwell. P. Jnne---August.

46 TETRANDRIA. MONOGYNIA. Plantago.

- * * Fructu hispido.
 2 Seeds hispid.
- Aparine. G. foliis octonis lanceolatis carinatis scabris retrorsum aculeatis, caule flaccido, fructibus hispidis.
 - G. Leaves 8 in a whirl, spear-shaped: keel rough, with prickles pointing backwards: joints woolly.
 - GOOSE-GRASS, or CLEAVER'S. CATCHWEED. Hedges; frequent. Southwell; Newark.

 A. May--August.
 - PLANTAGO. Smith. 183. Withering. 195.
 - Cal. quadrifidus. Cor. quadrifida, infera: limbo reflexo Stam. longissima. Caps. bilocularis, circumscissa.
 - Bloss. 4-cleft, permanent, the border broken back: Cal. 4-cleft. Stam. extremely long. Caps. 2-celled, cut round, superior.
 - major. P. foliis ovatis glabriusculis petiolo brevioribus, scapo tereti, spica floribus imbricata, seminibus plurimis.
 - P. Leaves egg-shaped, smooth: stalk cylindrical: spike tiled with florets,
 - GREATER PLANTAIN. Road sides; very common. P. June.-August.
 - media. P. foliis ovatis pubescentibus petiolo longioribus, scapo tereti, spica cylindrica, seminibus solitaris.
 - P. Leaves egg-spear-shaped, pubescent: spike and stalk cylindrical.
 - HOARY PLANTAIN. Road sides and pastures; common. P. June---August.

TETRANDRIA. MONOGYNIA. Sanguisorba. 47

- P. foliis lanceolatis utrinque acutis, spica ova-lanceota nnda, scapo angulato. lata.
- P. Leaves spear-shaped: spike nearly egg-shaped, naked: stalk angular.
- RIBWORT PLANTAIN. Meadows and pastures; very common. P. June, July.
- P. foliis linearibus pinnato dentatis, scapo Coronotereti. pus.
- P. Leaves strap-shaped, toothed: stalk cylin-drical.
- BUCKS-HORN PLANTAIN. STAR OF THE EARTH. In gravelly soil. Between Farnsfield and Mansfield Forest; upon the Forest of Sherwood, in many places; in a lane leading from Mansfield to Sherwood Hall.

 A. June---Aug.
- SANGUISORBA. Smith. 186. With. 199.
- Cal, quadrifidus. Germen inter calycem corrollamque. Semen unicum.
- Bloss. 4-cleft. Germen betwixt the calyx and the bloffom.
- S. spicis ovatis.
- S. Spikes egg shaped.

offici-

- GREAT BURNET. Moist pastures; on ubrly or calcareous soils. Meadows at Southwell, Newark, and Averham. P. June, July.
- CORNUS. Smith. 187. With. 200.
- Cal quadridentatus. Petala 4. Drupa infera, nuce biloculari.
- Involucrum generally 4-leaved. Petals 4 superior. Drupa succulent; beneath: 2-celled: hard; solitary.

48 TETRANDRIA. MONOGYNIA. Parietari.

- fangui- C. ramis rectis, foliis ovatis utrinque viridinea. bus, cymis nudis planis:
 - C. Branches straight, leaves egg-shaped, green on both sides: tuft flatted.
 - WILD CORNEL-TREE. DOG-WOOD. Woods and hedges. Hedges in the Quonce-Hill Close, at Newark; Halam Hill, Southwell; Edingley Hill. S. June.
 - PARIETARIA. Smith. 189. With. 2011
 - Cal. quadrifidus, inferus. Cor. nulla. Stamina elastica. Semen 1, calyce elongato tectum.
 - Flores aliquot fæminei calyce immutato.
 - Fem. florets mixed with hermaphrodite on the same branch. Calyx 4-cteft. Bloss. none. Seed 1, superiour, lengthening.
- offici. P. foliis lanceolato-ovatis basi uninervibus, nalis. involucri laciuiis ovatis, caule erectiusculo.
 - P. Leaves spear-egg-shaped; fruit-stalks fork-ed: cup of 2 leaves.
 - PELLITORY OF THE WALL. On old walls, and among rubbish. Rock-holes and crevices of the walls of Nottingham Castle; Walls of Southwell Cathedial and Thurgarton Church. P. June---Sept.
 - ALCHEMILLA. Smith. 119. With. 204.
 - Cal. octofidus, laciniis alternis minoribus, inferus. Cor. nulla. Semen. 1, nudum.
 - Calyx 8-clest. Bloss. none. Seed 1 or 2, inclosed by the calyx.
- vulgaris. A. folio plicar s lobatis.
 - A. Leaves gashed.

TETRANDRIA. TETRAGYNIA. Ilex. 49

common Ladies Mantle. Woodland meadows and pastures. Southwell; Thickets about Oxton Tollbar; Eperstone and Oxton Woods. P. June,---Sept.

III TETRAGYNIA.

ILEX. Smith. 192. Withering. 210.

Cal. 4-vel 5-dentatus. Cor. rotata. Styli nulli. Bacca tetrasperma.

Flores aliquot masculi, quadrifidi.

Stam. and Pist. variously disposed. Calyx 4-toothed. Bloss. wheel-shaped. Style none. Berry 4-seeded.

I. foliis ovatis acutis spinosis.

Aquifo-

I. Leaves egg-shaped, acute, thorny, on leaf lium. stalks: flowers in a kind of umbel, axillary.

HOLLY-TREE. Woods and hedges. Southwell. T. May.

POTAMOGETON. Smith. 193. With. 211:

Cal. nullus. Petala 4. Stylus nullus. Semina 4.

Cal. none. Petals 4. Style none. Seeds 4.

P. foliis superioribus oblongo-ovatis petiolatis natans. natantibus.

P. Leaves oblong, egg. shaped, on leaf-stalks; floating.

BROAD-LEAVED POND-WEED. Ponds and slow rivers; common. P. July.

P. foliis cordatis amplexcaulibus omnibus perfoliimmersis. atum.

P. Leaves heart-shaped, embracing the stems

50 TETRANDRIA. TETRAGYNIA. Sagina.

- PERFOLIATE POND-WEED. Slow rivers and ponds; common. Kirklington Mill; Ossington. P. July, Aug.
- densum. P. foliis ovatis acuminatis oppositis confertis, caule dichotomo, spica quadriflora.
 - P. Leaves egg-shaped, tapering to a point: opposite, crowded: stem forked: spike 4-slowered.
 - CLOSE-LEAVED POND-WEED. Ditches and slow streams. P. June.
 - lucens. P. foliis ovato-lanceolatis planis in petiolos attenuatis, spica multiflora coarctata.
 - P. Leaves very long and spear-shaped, sitting: upper ones opposite.
 - SHINING POND-WEED. Rivers and ponds; frequent. P. June, July.
 - crispum. P. foliis lanceolatis alternis undulatis serratis.
 - P. Leaves Spear-Shaped, alternate, or opposite, waved and serrated.
 - CURLED POND-WEED. Ponds and low streams; not uncommon. In the lower pond at Norwood Park. P. June, July.
 - pestina- P. foliis setaceis parallelis approximatis distum. tichis basi vaginantibus.
 - P. Leaves bristle-shaped, parallel, near together, pointing 2 ways.
 - FENNEL-LEAVED POND-WEED. Rivers and ponds. In the Race of the Water-mill, Southwell.
 - SAGINA. Smith. 199. With. 215.
 - Cal. tetraphyllus. Petala 4. Caps. unilocularis.
 - Calyx 4-leaved. Petals 4. Caps. 1-celled, 4-valved, many-seeded.

TETRANDRIA. TETRAGYNIA. Radiola. 51

- S. caulibus procumbentibus glabris, peta-procumlis brevissimis. bens.
- S. Branches trailing.
- PROCUMBENT PEARL-WORF. Walls, roofs, sandy places, garden walks, paved courts; common. Edingley Moors; Coddington Moors. P. May---Aug.
- S. caulibus erectiusculis pubescentibus, peta- apetala. lis obsoletis.
- S. Stem. rather upright, pubescent: flowers alternate, with very minute petals, notched at the end.
- ANNUAL SMALL-FLOWERED PEARL-WORT.
 Walls, gravel walks, and other very dry places; not uncommon.

 A. May, June.
- S. caule erecto subunifloro, foliolis calycinis erecta. acutis, petalis integris.
- S. Stem upright, generally supporting a single flower.
- UPRIGHT PEARL-WORT. Gravelly soils. Edingley and Coddington Moors.

 A. May.

RADIOLA. Smith. 201.

- Cal. multifidus. Petala 4. Capsula supera, octovalvis, octolocularis. Semina solitaria:
- Cal. many-clefted. Bloss. 4 petals. Caps. superior, with 8 valves and 8 cells. Seeds solitary.

RADIOLA.

mille-

Linum Radiola. LINN. With. 323.

grana:

ALL-SEED. Moist sandy heaths; rare. In the lane leading to Stapleford Moors, from the Sleaford Turnpike.

A. July, August.

Classis V.

PENTANDRIA.

Smith. 203: Withering. 217.

Stamina 5.

MONOGYNIA.

Stylus 1.

* Fl. monopetali, inferi, tetraspermi. Asperifolia.

1 Flowers of 1 petal; beneath; and 4 naked feeds.

ROUGH-LEAVED.

ECHIUM. Cor. fauce nuda, irregularis. Stigma bipartitum.

ECHIUM. Bloss. mouth naked; irregular bell-shaped.

LITHOSERMUM: Cor: fauce nuda, infundibuliformis. Cal. quinquepartitus.

LITHOSPERMUM. Bloss. mouth naked; funnel shaped: Cal. with 5 divisions.

SYMPHYTUM. Cor. fauce dentata, ventricosa.

SYMPHYTUM: Bloss. mouth toothed; bellying.

BORAGO. Cor. fauce dentata, rotata.

BORAGO. Bloss. mouth toothed; wheel shaped.

LYCOPSIS. Cor. fauce fornicta, infundibuliformis, tubo curvato.

- LYCOPSIS. Bloss. mouth closed; funnel-shaped; tube crooked.
- CYNOGLOSSUM. Cor. fauce fornicata, infundibuliformis. Semina depressa, latere affixa.
- CYNOGLOSSUM. Bloss. mouth closed; funnelshaped: Seeds depressed; fixed side-ways.
- MYOSOTIS. Cor. fauce fornicata, hypocrateriformis, lobis subemarginatis:
- MYOSOTIS. Bloss. mouth closed; salver-shaped; lobes notched at the end.
 - * * Fl. monopetali, inferi, angiospermi.
 - 2 Flowers of 1 petal; beneath. Seeds in a vessel.
- ANAGALLIS. Caps. unilocularis, circumscissa. Cor. rotatata. Stam. hirsuta.
- ANAGALLIS. Caps. 1-celled; cut round. Bloss. wheel-shaped. Suminit a knob.
- LYSIMACHIA. Caps. unilocularis, decemvalvis. Cor. rotata.
- LYSIMACHIA. Caps. 1-celled; 10-valved. Bloss. wheel-shaped. Summit blunt.
- PRIMULA. Caps. unilocularis, ore decemfido. Cor. fauce pervia, tubo cylindrico. Stigma globosum:
- PRIMULA. Caps. 1-celled. Bloss. funnel shaped; mouth open. Summit a knob.
- HOTTONIA. Caps. unilocularis. Cor. hypocrateriforniis. Stam. fauce imposita, Stigma globosum.
- HOTTONIA. Caps. 1-celled. Bloss. tube below the stamen. Summit globular.

54 PENTANDRIA. MONOGYNIA.

- MENYANTHES. Caps. unilocularis. Cor. hirsuta. Stigma bisidum.
- MENYANTHES. Caps. 1-celled. Bloss. shaggy. Summit cloven.
- DATURA: Caps. bilocularis, quadrivalvis. Cor. infundibuliformis. Cal. deciduus.
- DATURA. Caps. 2-celled; 4-valved. Bloss. funnel-shaped Cal. deciduous.
- HYOSCYAMUS. Caps. bilocularis, operculata. Cor. infundibuliformis. Stigma capitatum.
- HYOSCYAMUS. Caps. 2-celled; covered with a lid. Bloss. funnel-shaped. Summit a knob.
- VERBASCUM, Caps. bilocularis. Cor. rotata. Stigma simplex. Stam. declinata, barbata.
- VERBASCUM. Caps. 2-celled. Bloss. wheel-shaped. Stamens declining. Summit blunt.
- CHIRONIA. Caps. bilocularis. Cor. hypocrateriformis. Anthera demum spirales.
- CHIRONIA. Caps. 2-celled. Bloss. funnel-shaped. Anthers spirally twisted after flowering.
- CONVOLVULUS. Caps. bi-vel tri-locularis. Sem. bina. Cor. companulata, plicata. Stigmata duo.
- CONVOLVULUS. Caps. 2-celled; 2 seeds. Bloss. bell-shaped. Summit cloven.
- VINCA. Folliculi duo, erecti. Cor. hypocrateriformis.
- VINCA. Seed vessel 2 upright little bags. Bloss. falver-shaped. Seeds simple.
- SOLANUM. Bacca bilocularis. Cor. rotata. Anthe-ra biporosæ.

- SOLANUM. Berry 2-celled. Anthers with 2 holes in each.
- ATROPA. Bacca bilocularis. Cor. campanulata. Stam. distantia, incurvata.
- ATROPA. Berry 2-celled. Stamens distant; crooked...

 * * * Fl. monopetali, superi. -
 - 3 Flowers of 1 petal; superior. Seeds in a vessel.
- SAMOLUS: Caps. unilocularis, apice quinquevalvis. Cor. hypocrateriformis.
- SAMOLUS. Caps. 1-celled; 5-valved at the top: Bloss. falver-shaped. Summit a knob:
- JASIONE. Caps. semibilocularis, apice dehiscens. Cor. rotata, quinquepartita. Stigma clavatum.
- JASIONE. Caps. 2 celled Bloss. regular. Anthers adhering together. Cal. common, 10 leaved.
- CAMPANULA. Caps. tri-sive quinquelocularis, perforata. Cor. campanulata. Stigma trifidum.
- CAMPANULA. Caps. 3 or 5-celled; perforated. Bloss. bell-shaped. Summit 3 cleft.
- LONICERA. Bacca bilocularis, polysperma. Cor. irregularis.
- LONICERA. Berry 2 celled; roundish. Bloss. irregular. Summit a knob.
 - * * * * Fl. pentapetali, inferi
 - 4 Flowers of 5 petals; beneath the germen.
- RHAMNUS. Bacca trilocularis. Cal. urceolatus corollifer.
- RHAMNUS. Berry 3-celled; roundish. Calyx tubular, refembling a bloffom, with 5 converging scales, at the mouth.

56 - PENTANDRIA. MONOGYNIA.

- EUONUMUS. Caps. quinquelocularis. Sem. calyptrata. (al. planus.
- EUONYMUS. Berry like a capfule; lobed. Cal. expanding. Seeds in a berry-like feed-coat.
- VIOLA. Caps. unilocularis, trivalvis. Cal. pentaphyllus, calcaratus. Cor. irregularis.
- VIOLA. Caps. 1-celled; 3 valved. Bloss. irregular, with a spur behind. Anthers adhering together. Cal. 5 leaves.
 - * * * * * Fl. pentepetali, superi.
 - 5 Flowers of 5 petals; above the germen.
- RIBES. Bacca polysperma. (al. corollifer. Stylus bifidus.
- RIBES. Berry many seeded. Cal. bearing the blossom. Style cloven.
- HEDERA. Bacca pentasperma, calyce cincta. Stylus simplex.
- HEDERA. Berry 5 seeded; clasped by the calyx. Summit simple.

DIGYNIA.

Styli. 2.

* Fl. monopetali, inferi.

1 Flowers of 1 petal; beneath the germen.

GENTIANA. Caps. unilocularis. Cor. basi tubulosa, poris nectariferis destituta.

- GENTIANA. Caps. 1-celled; 2-valved. Bloss. tubular. Receptacles of the seeds, 2.
- CUSCUTA. Caps. bilocularis. Cor. campanulata.
- CUSCUTA. Bloss. 4-cleft; egg-shaped. Cal. 4-cleft. Cap. 2-celled; cut round.
 - * * Fl. incompleti:
 - 2 Flowers incomplete.
- CHENOPODIUM. Sem. unicum, lenticulare, superum.
- CHENOPODIUM. Seed round and flat. Cal. with 5 divisions; segments concave.
- HERNIARIA: Caps. monosperma, corticata. Filam. quinque sterilia.
- HERNIARIA. Seed 1; egg-shaped; covered. Cal. with 5 divisions. Filaments 5 sterile ones.
- ULMUS. Caps. monosperma, membranacea. compressa.
- ULMUS Berry juiceless; compressed. Cal. 1 leaf; shrivelling.
- *** Fl. pentapetali, superi, dispermi. UMBELLATÆ.
 - 3 Flowers of 5 petals, mostly of 2 seeds. Umbelliferous.
 - A. Involucro universali partialique.
 - A. Involucrum general, and partial.
- HYDROCOTYLE. Umbella simplex. Sem. compressa.
- HYDROCOTYLE. Flowers in a fort of umbel; fertile. Seeds compressed.
- SANICULA. Umb. subcapitatæ, disco abortiente. Sem. uncinato-muricata.

- SANICULA. Flowers in a fort of umbel; central ones barren. Seeds prickly.
- HERACLEUM. Fl. radiati, abortivi. Invol. deciduum. Sem. membranacea;
- HERACLEUM. Flowers radiate; some barren. Invol. deciduous. Seeds membranaceous.
- CENANTHE. Fl. radiati; disci steriles. Sem. co-ronata, sessilia.
- CENANTHE. Flowers radiate; outer ones barren. Invol. simple. Seeds crowned, sitting.
- CAUCALIS. Fl. radiati; abortivi. Invol. simplex. Sem. muricata.
- CAUCALIS. Flowers radiate; central ones barren. Invol. simple. Seeds prickly.
- DAUCUS. Fl. radiati, abortivi. Invol. pinnatum. Sem. muricata.
- DAUCUS, Flowers radiate; central ones barren. Invol. winged. Seeds rough with hairs.
- PEUCEDANUM. Fl. flosculosi, abortivi. Invol. simplex. Sem. compressa, alata, striata.
- PEUCEDANUM. Flowers uniform; central ones barren. Invol. simple. Seeds depressed; scored.
- CONIUM. Fl. flosc, fertiles. Pet. cordata. Sem. gibba, costato-sulcata. Invlucella dimidiata.
- CONIUM. Flowers uniform; all fertile. Partial Invol. extending but half way round. Petals heart-shaped. Seeds bulging; ribbed and furrowed.
- BUNIUM. Fl. flosc. fert. Pet. cordata. Involu-cella setacea.
- BUNIUM. Flowers uniform; all fertile. Partial Invol. like bristles. Petals heart-shaped.

- SIUM. Fl. flosc. fert. Pet. cordata. Sem. subovata: striata.
- SIUM. Flowers uniform; all fertile. Petals heartfhaped. Seeds nearly egg-shaped; scored.
- ANGELICA. Fl. flosc. fert. Pet. incurva. Umbellulæ globosæ. Eem. hemisphærica, trialata.
- ANGELICA. Flowers uniform; all fertile. Umbellules globular. Petals nearly flat.
- SISON. Fl. flosc. fert. Pet. inflexa. Umbella depauperata. Sem. ovata, striata.
- SISON. Flowers uniform; all fertile. Umbel of few spokes. Petals nearly flat.
 - B. Involucris partialibus, universali nullo.

 Involucrum only partial.
- ETHUSA. Fl. subradiantes, fertiles. Involucella
- dimidiata.
- ŒTHUSA. Flowers somewhat radiate: all fertile: Partial Invol. extending but half way round.
- CHÆROPHYLLUM. Fl. subradiantes, abortivi. Involuc. reflexa, concava, pentaphylla.
- CHÆROPHYLLUM. Flowers uniform; central ones barren. Partial Invol. of 5 leaves.
- SCANDIX. Fl. radiati: abortivi. Fruct. subulatus:
- SCANDIX. Flowers radiate; central ones barren. Fruit oblong.
- PHELLANDRIUM. Fl. flosculosi, fertiles. Fruct. coronatus.
- PHELLANDRIUM. Flowers uniform; all fertile. Fruit crowned.
- CICUTA. Fl. flosc. fert. Fruct. subovatus.

- CICUTA. Flowers uniform; all fertile. Petals flattish.
- C. Involucro nullo; vix universali, nunquam partialibus.
- C. Involucrum none; neither general nor partial.
- APIUM. Involucrum monophyllum. Fl. flosc. fert. Fruct. costatus. Pet. inflexa.
- APIUM. Flowers uniform; almost all fertile. Petals bent inwards. Seeds minute; scored.
- PIMPINELLA. Fl. flosc. fert. Fruct. striatus. Stigmata subglobosa.
- PIMPINELLA. Flowers uniform; all fertile. Umbels before flowering, nodding. Petals heart-shaped.
- ÆGOPODIUM. Fl. flosc. fert. Fruct. ovatus, striatus. Stigm. simplicia.
- ÆGOPODIUM. Flowers uniform; all fertile. Seeds bulging; scored. Petals heart-shaped.
- ANETHUM. Fl. flosc. fert. Fruct. subcompressus, utrinque tricostatus.
- ANETHUM. Flowers uniform; all fertile. Seeds bordered; scored.
- PASTINACA. Fl. flosc. fert. Fruct. compressoplanus.
- PASTINACA. Flowers uniform; all fertile. Seeds depressed and flat.
- SMYRNIUM. Fl. flosc. abortivi. Semina reniforma, angulata.
- SMYRNIUM. Flowers uniform; central ones barren. Seeds hidney. shaped; angular.

CARUM. Fl. flosc. abort. Sem. gibba, striata.

CARUM. Flowers uniform: central ones barrens

Seeds bulging; scored.

TRIGYNIA.

Styli 3.

* Flores superi.

1. Flowers above the germen.

VIBURNUM. Cor. quinquesida. Bacca monosperma.

VIBURNUM. Bloss. 5-cleft. Berry 1-feeded.

SAMBUCUS. Cor. quinquefida. Bacca trisperma.

SAMBUCUS. Bloss. 5-cleft. Berry 3-seeded.

TETRAGYNIA.

Styli 4.

PARNASSIA. Nectaria ciliata setis globiferis.

PARNASSIA. Bloss. 5 petals. Nectaries 5: fringed with glands. Caps. 4-valved.

62 PENTANDRIA. PENTAGYNIA.

PENTAGYNIA.

Styli 5.

LINUM. Cor. pentapetala. Caps. decemlocularis. LINUM. Bloss. 5-petals. Caps. 10-celled: 1 feed in each cell.

HEXAGYNIA.

Styli 6.

DROSERA. Cor. pentapetala. Caps. trivalvis, polysperma.

DROSERA. Bloss. 5-petals. Caps. 1-celled; opening at the top:

POLYGYNIA.

Styli plurimi.

MYOSURUS. Pet. quinque, ungulhus mous vis, ne cetariferis. Sem. mudz

MY CAURUS On a lever New Medice & conque-

PENTANDRIA.

1 MONOGYNIA.

MYOSOTIS. Smith. 212. With. 225.

Cor. hypocrateriformis, quinquefida, subemarginata: fauce clausa fornicibus.

Blossom falver-shaped, 5-cleft, lobes notched. Mouth closed with projecting scales. Nuts 4, imperforated.

M. seminibus nudis, foliis elliptico lanceola- scorpitis, racemis ebracteatis multifloris. oides:

M. Seeds smooth: calyxes egg-shaped, tapering to a point; very hairy, longer than the tube of the blossom: leaves egg-spear-shaped.

M. arvensis. With.

MOUSE-EAR SCORPION-GRASS. In sandy places; common.

A. May, June.

B. M. Seeds smooth: calyxes inversely eggshaped, blunt, smooth, as long as the tube of the blossom: leaves spear-shaped.

M. palustris. With.

WATER MOUSE-EAR. SCORPION-GRASS. Wet ditches, springs, rivulets. P. May---July.

LITHOSPERMUM. Smith. 213. With. 226:

Cor. infundibuliformis: fauce pervia, nuda, Cal. quinquepartitus.

64 PENTANDRIA. MONOGYNIA. Cynoglossum.

- Blossom funnel-shaped, tube long, slender, open and without valves at the mouth. Cal. with 5 divisions. Nuts 4, very hard, imperfortated.
- offici- L. seminibus lævibus, corollis calycem vix nale. superantibus, foliis lanceolatis acutiusculis venosis.
 - L. Seeds smooth; blossoms hardly longer than the cup: leaves spear-shaped.
 - COMMON GROMWELL. GRAY MILL. GREY MILLET. In dry gravelly soils. Thorny-moor Holt, near Southwell. In a close near Halam beck. In a hedge between Broxtow and Wigley Woods. P. May.
- arvense. L. seminibus rugosis, corollis vix calycem superantibus, foliis obtusis aveniis.
 - L. Seeds wrinkled: blossoms hardly longer than the cups.
 - CORN GROMWELL. BASTARD ALKANET. Cornfields. In cornfields between Kirklington turn-pike-road, and Bella Park; Beacon-fields, near Newark; Fields between Newarkand Hawton.

A. May, June.

CYNOGLOSSUM. Smith 216. With. 227.

- Cor. infundibuliformis; fauce clausa fornicibus. Sem depressa, interiore tantum latere stylo affixa.
- Blossom funnel-shaped: mouth closed by projecting valves. Nuts 4, depressed, fixed to the style by the inner side only, impersorated.
- offici- C. staminibus corolla brevioribus, foliis latonale. lanceolatis tomentosis sessilibus.
 - C. Stamens Shorter than the blossom: leaves broad, spear-shaped, sitting, cottony.

PENTANDRIA. MONOGYNIA. Symphytum. 65

COMMON HOUND'S-TONGUE. Road sides, and amongst rubbish; not frequent. In hedge bottoms, and lanes about Collingham; Mansfield. B. June.

SYMPHYTUM. Smith. 218. With. 230.

Cor. limbus tubulato-ventricosus, fauce clausa radiis subulatis. Cal. quinquepartitus.

Bloss. funnel-shaped, bellying towards the top: mouth closed by hollow radiate valves, which have an open hole on the outside, near the border. Nuts 4, perforated.

S. foliis ovato-lanceolatis docurrentibus.

officinale.

11. "

S. Leaves egg-shaped, decurrent.

COMMON COMFREY. Banks of rivers and wet ditches. In a ditch in a close at Ossington.

P. May, June.

BORAGO.

Cor. rotata, fauce radiis clausa.

Bloss. wheel-shaped: mouth closed with rays. Nuts 4, not perforated.

B. foliis omnibus alternis, calycibus patenti- officibus. nalis.

B. All the leaves alternate: calyxes expanding.

COMMON BORAGE. Walls, and amongst rubbish. Newark; but certainly not indigenious. B. June, July.

LYCOPSIS. Smith. 220. With. 231.

Cor. tubo incurvato, fauce clausa squamis convexis.

Bloss. tube crooked: mouth closed with scales. Nuts 4, perforated.

66 PENTANDRIA. MONOGYNIA. Echium.

- arvensis. L. foliis lanceolatis hispidis, calycibus florescentibus erectis.
 - L. Leaves spear-shaped, rough with hair: callyx while in flower upright.
 - SMALL BUGLOSS. Cornfield; and road sides. Southwell; Mansfield; Newark. A. June, July.
 - ECHIUM. Smith. 221. With. 232.
 - Cor. irregularis, fauce nuda. Stigma bipartitum.
 - Bloss. irregular; mouth naked. Nuts 4, large, rough, imperforated.
- vulgare. E. caule tuberculato hispido, foliis caulinis lanceolatis hispidis, spicis lateralibus pilosis deflexis.
 - E. Stem rough with bristles and tubercles: stemleaves spear-shaped, rough with hair: slowers in lateral spikes.
 - common Blue VIPER'S BUGLOSS. In sandy ground, and among rubbish; frequent. Farusfield; Blidworth; Mansfield. B. July:
 - PRIMULA. Smith. 222. With. 233.
 - bus cylindricus, fauce pervia. Stigma globosum.
 - Bloss. tube cylindrical; mouth open. Stem within the tube. Caps. 1-celled, cylindrical, many-feeded, opening with 10 teeth. Summit a knob.
- vulga- P. foliis dentatis rugosis, scapis unifloris, co115. rollæ limbo plano.

PENTANDRIA. MONOGYNIA. Menyanthes. 67

- P. Leaves wrinkled, toothed; border of the blossom flat.
- COMMON PRIMROSF. Woods, hedges and thickets, particularly in a clayey soil. P April.
- P. foliis dentatis rugosis medio contractis, elatior. scapo multifloro, corollæ limbo plano.
- P. Leaves wrinkled and toothed: stalk manyflowered; outermost flowers drooping: border of the blossom flat.
 - OXLIP. GREAT COWSLIP. Woods and shady places; not common. Thickets near Oxton Toll-bar, with P. vulgaris; Eperstone Wood.
- P. foliis dentatis rugosis medio contractis, veris. scapo multifloro, corollæ limbo concavo.
- P. Leaves wrinkled and toothed: flalk manyflowered; all the flowers drooping: border of the bloffom concave.
- P. officinalis. Wtth.
- COMMON COWSLIP, or PAIGLE. Pastures; common. Southwell; Newark. P. April.
- CYCLAMEN. Smith. 224. With. 235.
- Cor. rotata, reflexa; tubo brevissimo; fauce prominente. Bacca tecta capsula.
- Bloss. wheel-shaped, reflected; tube very short; mouth projecting. Recept. fleshy, supporting a berry inclosed in a case.
- C. corolia retrosflexa, foliis cordatis angulatis denticulatis.

pæum.

- C. Bloffom bent back as if broken; leaves circular, scolloped.
- spring cyclamen, or sow bread. In woods and thickets, probably not indigenous. In the woods at Langar, the seat of Earl Howe. P. April.

68 PENTANDRIA. MONOGYNIA. Hottonia.

MENYANTHES. Smith. 225. With. 235. Cor. hirsuta. Stigma bifidum. Capsula unilocularis.

Bloss. hairy, or fringed. Nect. 5 at the base of the germen. Summit 2-lobed. Caps. 1-celled.

trifoli- M. foliis ternatis, corolla superne villosissiata. ma.

M. Leaves growing by threes: bloffom segments entire at the edge, shaggy on the upper surface.

BUCKBEAN. MARSH TREFOIL. In marshy grounds. Edingley Moor: Oxton Bottoms: plentifully. Basford Scottum; in a Pond near Oxton Toll-bar. P. June, July.

HOTTONIA. Smith. 226. With. 236.

Cor. hypocrateriformis Stam. fauce inserta, lobis opposita. Caps. unilocularis. Stigma globosum. Cal. quinquepartitus.

Bloss. salver-shaped. Stam. fixed to the top of the tube. Summit globular. Caps. 1-celled, globular.

palustris. H. caule multisloro, pedunculis verticillatis. H. Fruit-stalks in whirls, many-flowered.

FEATHERFOIL. WATER VIOLET. Ponds and ditches. In the Ditches beyond the Bridge on the Road from Newark to Kelham; about Fidler's Bridge, in the Foot-way to Kelham.

P. June, July.

LYSIMACHIA. Emith. 227. With. 237. Cor. rotata. Caps. globosa, mucronato, decem-valvis.

Bloss. wheel-shaped. Caps. globular, daggerpointed; of 1 cell, 5 valves, and many seeds.

PENTANDRIA. MONOGYNIA. Anagallis. 69

* Pedunculis multifloris.

1 Fruit-stalks, many-flowered.

- L. paniculata, recemis terminalibus, foliis vulgaris. ovato-lanceolatis acutis.
- L. Panicled: bunches terminating.
- YELLOW LOOSESTRIFE. Banks of rivers, and shady marshes; not common. In a Willow-holt by the River between Cromwell and Collingham; on the River-bank under Flintham Wood near Hazelford Ferry.

 P. July.
 - # # Pedunculis unifloris.
 - 2 Fruit-stalks, 1-flowered.
- L. foliis ovatis acutis, floribus solitariis, nemorumi caule procumbente, staminibus lævibus.
- L. Leaves egg-shaped, acute; flowers solitary: fem trailing.
- WOOD LOOSESTRIFE. YELLOW PIMPERNEL. Woods and shady places. In the following Woods: Eperstone, Combes, Flintham, Ossington, Broxtow; Brockwood Hills. P. May---Sept.
- L. foliis subcordatis, floribus solitariis, caule Nummurepente, staminibus glandulosis. laria.
- L. Leaves somewhat heart-shaped: flowers solitary; stem creeping.
- CREEPING LOOSESTRIFE. MONEY-WORT, or HERB TWOPENCE. Moist meadows and wet shady places; not uncommon. In the Old Trent Ditches beyond Newark Bridge, on the Kelham Road; Southwell Water-mill; Banks of the River Greet.

P. June, July.

ANAGALLIS. Smith. 229. With. 238. Cor. rotata. Caps. circumscissa. Stam. hirsuta.

70 PENTANDRIA. MONOGYNIA. Convolvulus.

- Bloss, wheel shaped. Caps. cut round: of 1-cell, and many-feeds.
- arvensis. A. foliis ovatis subtus punctatis, caule procumbente.
 - A. Leaves egg. Spear-shaped: stem trailing: calyx segments spear-shaped.
 - SCARLET PIMPER NEI. Corn-fields and sandy places; common. Southwell; Mansfield; Newark, Beacon Fields.

 A. June, July.
 - tenella. A. foliis subrotundis acutiusculis petiolatis, caule repente, stigmate acuto.

A. Leaves egg-shaped, rather acute: stem creeping, striking root at the joints.

BOG PIMPERNEL. Wet heaths and turfy bogs. Oxton Bottoms; Boggy ground in the Quonce Close, Newark; Basford Scottum; Gamston Moors near Nottingham; Coddington Carr Grounds; Close at Halam Beck near Southwell; Edingley Moer.

P. July, August.

- CONVOLVULUS. Smith. 232. With. 239.
- Cor. campanulata, plicata. Stigmata duo. Caps. bi-vel tri-locularis; loculis dispermis.
- Bloss. bell-shaped, plaited. Nect. surrounding the base of the germen. Summits 2: Caps. 2 or 3-celled, 2 seeds in each.
- arvensis. C. foliis sagittatis utrinque acutis, pedunculis subunissoris, bracteis minutis a flore remotis.
 - C. Leaves arrow-shaped, acute on each side: fruit-stalks bearing generally 1 flower.
 - SMALL BINDWEED. Corn-fields, road sides, and in Gardens; common. P. June, July.
 - sepium. C. foliis sagittatis postice truncatis, peduncu-

PENTANDRIA. MONOGYNIA. Campanula. 71

- lis tetragonis unifloris, bracteis cordatis calyci approximatis.
- C. Leaves arrow shaped, lopped at the base: fruit-stalk 4 corned, bearing 1 flower.
- GREAT BINDWEED. In hedges. In the Bushes on the Bank of the Old Treat Ditches near Newark Bridge.

 P. July, August.
- CAMPANULA. Smith. 234. With. 241.
- Cor. campanulata, fundo clauso valvis staminiferis. Stigma trifidum. Caps. infera, poris lateralibus dehiscens.
- Bloss. bell-shaped. Filaments broad and arched at the base. Summit 3 cleft. Caps. beneath: 3-celled; opening at 3 lateral holes.
- C. toliis radicalibus reniformibus; caulinis rotunlinearibus. difolia.
- C. Root-leaves kidney-shaped: stem-leaves, strap-shaped, very entire.
- ROUND-LEAVED BELL-FLOWER. Heaths, road sides, and hedge banks: common. Newark; Southwell; Saerwood Forest. P. August, Sept.
- C: foliis undulatis: radicalibus lanceolato- Rapunovalibus, panicula coarctata. culus.
- C. Leaves waved: root leaves spear oval: panicle compact.
- RAMPIOR BELL-FLOWER. Hedge banks, fallow-fields; rare. In a Plantation at Coddington.

 Mr. Jacob Urboyno.
- DEERING p. 185 mentions this plant as growing in Padford Hollows, near Nottingham; it is not, however, to be discovered in this situation, and we are confident, that the plant observed there by Deering, was no other than he C. ROTU *DIFFLIA, which still is to be found abundantly in the same spot. What confirms this o-

72 FENTANDRIA. MONOGYNIA. Campanula.

pinion, is, that C. ROLUNDIFOLIA was originally omitted by Deering, and afterwards inserted among the addenda.

- latifo- C. foliis ovato lanceolatis, caule simplicissilia. mo tereti, pendunculis unifloris, fructibus cernuis.
 - C. Leaves egg-spear-shaped: stem unbranched, cylindrical flowers soliary, on fruit-stalks: fruit-drooping.
 - GIANT BELL-FLOWER. In woods and thickets. In the following Woods: Lounds near Eakring, Broxtow, Colwick, Ossington, Wernham, Fliutham, Winkburn and Kirklington, Westhorpe Dumal, near Southwell.

 P. August.
- Trache- C. caule angulato, foliis cordato-lanceolatis lium. acute serratis, calycibusque hispidis, peduncults axillaribus paucifloris.
 - C. Stem angular; leaves on leaf-stalks; cups fringed; fruit stalks 3-sleft.
 - NETTLE-LEAVED BELL-FLOWER. In Colwick Wood; between Radford field and the Cherry-holt, near Asply. Debring.
 - As the C. LATIOLIA grows in the places mentioned by Deering, and the C. TRACHILIUM has not yet presented itself to us in Nottinghamshire, we suppose that our Pr. decessor was mistaken.
- glome- C. caule angulato simplici, floribus sessilirata. bus, capitulo terminali, foliis ovatis crenatis.
 - C. Stem angular, not branched: flowers fitting in a terminating head.
 - CLUSTERED BELL-FLmWER. Meadows and pastures. In the Meadow of Newark, plentifully; where I have found a variety with milk-white flowers. Averham Meadow. In several places about Mansfield. Deering.

 T. July.

IASIONE. Smith. 241. With. 247.

Cor. rotata, quinquepartita; laciniis linearibus. Stigma clavatum bisidum. Antheræ basi connexæ. Caps. infera, semibilocularis, apice dehiscens.

Common calyx 10-leaved. Cup proper 5toothed. Bloss. 5 petals, regular. Anthers united. Caps. beneath; 2 celled; many-seeded, opening at the top, crowned by the proper ·cup.

IASIONE.

montana.

I. Leaves strap shaped, very entire:

SHEEP'S BIT. SHEEP'S SCABIOUS. In dry sandy places. Dry banks by the side of the road from Newark to Lincoln, opposite Mr. Duncound's House, at Langford; more abundantly on the Banks by the Road under Mr. Pocklington's Plantations, at Muskham: Farusfield. A. June, July.

VIOLA. Smith. 244. Withering. 260.

Cor. pentapetala, irregularis, postice cornuta. Anthera subcoharentes. Caps. supera, trivalvis, unilocularis. Cal. pentaphyllus, basi productus.

Calvx 5-leaved, adhering to the bloffom above the base. Bloss. 5 petals, irregular, with a Spur behind. Anthers cohering. Caps. 1celled, 3 valved.

V. acaulis, soluis cordatis petiolisque piloso- hirta. hispidis, calycibus obtusis.

V. Leaves heart-shaped, rough with strong huir; leaf-stalks rough with hair; florat leaves below the middle of the fruit stalk.

74 FENTANDRIA. MONOGYNIA. Viola.

- HAIRY VIOLET. Shady places, and hedge banks.

 Lanes adjoining the Moors of Coddington and Langford; Barnby in the Willows; Westhorpe Dumble.

 P. April.
- edorata. V. acaulis, stolonibus reptantibus, foliis cordatis petiolisque glabriusculis, calycibus obtusis.
 - V. Leaves heart-shaped; suckers creeping; floral leaves above the middle of the fruit-stalk.
 - SWEET VIOLET. Warm hedges, banks and moist warm lanes; particularly in clay or marle; common. Southwell; Newark; Nottingham. P. March, April.
 - palus- V. acaulis, foliis reniformibus glabris, radice tris. repente.
 - V. Leaves kidney-shaped.
 - MARSH VIOLET. Moist meadows; peaty and mossy bogs; rare. On Farnsfield Carr; Oxton bottoms; mossy banks on Stapleford Moors, near the spot where Osmunda regalis grows.

 P. April.
 - canina. V. caule adultiore adscendente canaliculato, foliis oblongo-cordatis, calycibus acutis.
 - V. Stem ascending as it attains its full growth: leaves oblong-heart-shaped.
 - DOG'S VIOLET. Shady places, heaths, hedge banks, common. On Stapleford, Coddington, and Langford Moors; plentifully. Halam and Edingley Hills; Southwell.

 P. April---June.
 - tricolor. V. caule angulato diffuso, foliis oblongis dentato-crenatis, stipulis lyrato-pinnatifidis.
 - V. Stem branched; leaves egg-shaped, toothed: calyx smooth, but half the size of the blossom.
 - PANSY VIOLET. HEART'S-EASE. Cornfields; sides of paths, gardens, and cultivated ground. Among corn, and in fields about Newark, Southwell, Mansfield, and Nottingham.

 A. May---Sept.

PENTANDRIA. MONOGYNIA. Verbascum. 75

VERBASCUM. Smith. 249: With. 248.

Cor. rotata, irregularis. Stam. declinata, barbata. Caps. supera, bilocularis, valvulis inflexis, polysperma. Stigma simplex.

Bloss. wheel-shaped, nearly regular. Caps. 2-celled; 2-valved; many-seeded.

V. foliis decurrentibus utrinque tomentosis, Thap-caule simplici.

Jus.

V. Leaves decurrent, cottony on both sides: stem unbranched: summit globular.

GREAT MULLEIN. HIGH TAPER. Dry ditch banks, in chalky or gravelly soils. On banks going into Collingham, from Newark; Mansfield Stone Quarries; Linby; Bulwell.

B. July, Aug.

V. foliis cuneiformi-oblongis supra denudatis, Lych-caule angulato paniculato. utis.

V. Leaves wedge-oblong.

WHITE MULLEIN. Sandy lanes, and road sides; very rare. Clifton Hall. MARTYN.

V. foliis ovato-oblongis subserratis utrinque pulverpulverulentis, caule tereti paniculato. ulentum.

V. Leaves egg-oblong, somewhat serrated; powdery on both sides.

V. Lychnitis, Var. 1. With.

YELLOW HOARY MULLEIN. NORFOLK MULLEIN. Banks and hedges in a gravelly or calcareous soil; rare. At Wollerton. RAY. B. July.

V. foliis oblongo-cordatis petiolatis undulato- nigrum. crenatis subpubescentibus.

76 PENTANDRIA. MONOGYNIA. Hyoscyamus.

V. Leaves heart-oblong, on leaf-stalks:

DARK or BLACK MULLEIN. Hedges and road sides. In plantations at Rufford, belonging to the Hon. Richard Lumley Saville; Wollaton, near Nottingham; and near Mansfield; upon the Forest near Clipstone Water.

P. July, August.

HYOSCYAMUS. Smith. 254. With. 252.

Cor. infundibuliformis, obtusa, irregularis. Stam. inclinata. Caps. operculata, bilocularis.

Bloss. Funnel-shaped, blunt, irregular. Stam. leaning. Caps. with a lid, 2-celled. Seeds many, kidney-shaped.

niger. H. foliis amplexicaulibus sinuatis, sforibus, sessilibus.

H. Leaves embracing the stem, indented: flowers sitting.

COMMON HENBANE. In villages, road sides, and among rubbish; on dunghills. Newark; Southwell.

A July.

ATROPA. Smith. 255. Withering. 252.

Cor. campanulata. Stam. distantia. Bacca supera, bilocularis.

Bloss. bell-shaped. Stam. distant. Berry glo-bular, 2-celled.

Bella- A. caule herbaceo, foliis ovatis integris.
donna. A. Stem herbaceous; leaves egg-shaped; entire.

DWALE, or DEADLY NIGHT-SHADE. Among limestone, and rubbish. Stone quarries, at Mansfield-Upon Clifton Rock, near Nottingham, facing the river. Deering. In June 1806, I made a fruitless search after this plant at Clifton: and was informed that the plants had, on account of their poisonous qualities, been eradicated P. June.

PENTANDRIA. MONOGYNIA. Solanum. 77

- SOLANUM. Smith. 256. With. 253.
- Cor. rotata. Antheræ subcoalitæ, apice poro gemino dehiscentes. Bacca supera, bilocularis.
- Bloss. Wheel-shaped. Anthers a little united, noles at the top of each. Berry 2-celled.
- S. caule inermi frutescente flexuoso, foliis Dulcasuperioribus hastatis, racemis cymosis. mara.
- S. Stem without prickles, rather shrub-like, zigzag: upper leaves halberd-shaped: flowers in tuft-like bunches.
- WOODY NIGHT-SHADE. BITTER-SWEET.

 Hedges and sides of ditches. Hedges by the sides of
 the Old Trent Ditches, beyond Newark Bridge; Southwell.

 S. June, July.
- S. caule inermi herbaceo, foliis ovatis denta- nigrum. to-angulatis, umbellis lateralibus nutantibus.
- S. Stem without prickles, herbaceous: leaves egg-shaped, toothed, angular: bunches nod-ding, pointing 2 ways.
- COMMON, or GARDEN NIGHT-SHADE. In kitchen gardens, amongst rubbish, and on dunghills. Southwell; Newark: by the side of the road from Collingham to Besthorpe, in great abundance.

A. June---Sept.

CHIRONIA. Smith. 257. With. 254.

- Cor. hypocrateriformis. Stam. tubo inserta. Antheræ demum spirales. Stylus declinatus. Pericarpium superum, valvulis inflexis biloculare.
- Bloss. Funnel-shaped: pistil leaning. Stam. fixed to the top of the tube of the blossom: Anthers becoming spiral. Seed-vess. 2-celled.

bryth ra

78 PENTANDRIA. MONOGYNIA. Samolus.

- Centau- C. caule herbaceo dichotome paniculato, forium. liis ovoto-lanceolatis, calyce tubo breviore.
 - C. Stem herbaceous: leaves spear-shaped: calyx shorter than the tube of the blossom.
 - COMMON CENTAURY. Barren pastures, particularly in a clayey soil. Borders of cornfields about Southwell, plentifully; Eperstone Wood; by the side of the road from Southwell to Kirklington; Close at Halam Beck, near Southwell, with Chlora Perfoliata; on Mr. Denison's new road, leading from Carlton-upon-Trent to Ossington.

Var. 1. Flowers white; about Southwell, Rev. J. T. Becher; near Ossington, Rev. J. Charlesworth.

- SAMOLUS. Smith. 259. Withering. 246.
- Cor. hypocrateriformis, quinquefida, squamis interstinctis. Stamina tubo inserta, laciniis opposita. Caps. seminifera, unilocularis, quinquedentatus.
- Bloss. falver-shaped. Stamens protected by the valves of the blossom. Caps. 1-celled; beneath; opening with 5 valves at the top.
- Valeran- S. foliis obtusis, racemo multifloro, pedidi. cellis bracteolatis:
 - S. Leaves blunt; bunches many-flowered; fruit-stalks with florel leaves.
 - BROOK-WEED. WATER PIMPERNEL. Marshes and moist meadows, brooks and running waters. Parks at Southwell; in a Ditch under Lady-Wood, between Ossington and Scarthingmoor Inn, near Tuxford.

 P. June, July.
 - LONICERA. Smith. 260. With. 246.
 - Cor: monopetala, irregularis. Bacca polysperma, infera.

- Bloss. 1 petal, tubular, irregular. Berry beneath; 1 to 3 celled; many feeded.
- L. capitulis ovatis imbricatis rerminalibus, Periclyfoliis omnibus distinctis deciduis floribus menum.
 ringentibus.
- L. Heads egg-shaped, tiled, terminating: leaves distinct, deciduous: blossom gaping.
- COMMON HONEY-SUCKLE, or WOODBINE. Hedges; common. Southwell. F. June. July.
- RHAMNUS. Smith. 261. With. 256.
- Cal. urceolatis. Petala 5, staminibus opposita. Bacca supera,
- Calyx tubular; stales protecting the stamens. Bloss. none; fruit a drupa.
- R. spinis terminalibus, floribus quadrifidis cathardioicis, foliis ovatis, caule erecto, bacca te- ticus. trasperma.
- R. Thorns terminating: flowers 4 cleft, male and female on different plants: leaves eggshaped: stem upright.
- BUCKTHORN. Woods and hedges. In Hedges about Basserd, and Bulwell; also in itoline-lane, in a Hedge by the Foot-way leading thence towards Nottingham.

 S. May, June.
- EUONYMUS. Smith. 262. With. 259.
- Cal. planus. Petala 5. Caps. pentagona, quinquelocularis, quinquevalvis, colorata. Sem. calyptrata.
- Bloss. 5 petals. Caps. coloured; 5-fided, 5-celled, 5-valved. Seed-coat hollow. Seed veiled.

euro- E. floribus, plerisque quadrifidis, petalis acupaus: tis, ramis lævibus.

E. Flowers mostly 4-cleft: leaves sitting.

SPINDLE-TREE. PRICKWOOD. Woods and Hedges; not common. Normanton Holt side, near the Water-mill, and in Mr. Bucklow's Peppermint Garden, Southwell. S. May.

RIBES. Smith. 263. Withering. 264.

Cal. superus, campanulatus, quinquefidus. Petala et Stamina calyci inserta. Stylus bifidus. Bacca polysperma.

Petals 5. they and the Stamens fixed to the cally x. Style cloven. Berry beneath, 1-celled, many-feeded.

* Inermia.

1 Without prickles.

rubrum. R. inerme, racemis glabris pendulis, floribus planiusculis, petalis obcordatis.

R. Bunches smooth, pendant: flowers flattish.

COMMON CURRANTS. Woods and hedges. In a hedge near Papplewick Bridge, in the road to Linby; also at Basford.

8. May.

nigrum. R. inerme, racemis pilosis pendulis pedunculo simplici ad basin, floribus oblongis.

R. Bunches hairy, flowers oblong.

BLACK CURRANTS. Wet hedges and banks of rivers: with R. rubrum. In a Hedge near Papplewick Bridge. S. May.

* * Aculeata.

2 With prickles.

- R. ramis aculeatis, petiolis pilosis, peduncu- Grossulis unifloris, bracteis binis, fructu hirsuto. laria.
- R. Branches prickly: fringe of the leaf-stalk hairy: berries hairy.
- ROUGH GOOSEBERRY. In hedges. Southwell. S. April.
- HEDERA. Smith. 267. With. 267.
- Cal. quinquedentatus, Petala 5, basi dilatata.

 Bacca pentasperma, calyce cincta.
- Petals 5, oblong. Berry 4 or 5 celled; 3 to 5-feeded: juicelefs, encircled by the calyx.
- H. foliis ovatis lobatisque.

Helix.

- H. Leaves, some egg-shaped, others lobed.
- COMMON IVY. Woods, hedges, and old buildings. Southwell Palace; Ruins of the Castle, Newark.
- VINCA. Smith. 269. With. 268.
- Cor. contorta, hyprocrateriformis, infera. Folliculi duo, erecti. Semina nuda.
- Bloss. salver-shaped. Seed-vess. 2 upright little bags. Seeds naked.
- V. caulibus procumbentibus, foliis elliptico. minor. lanceolatis margine glabris, floribus pedunculatis, dentibus calycinis lanceolatis.
- V. Stems trailing: leaves spear egg-shaped: flowers on fruit stalks.
- LESSER PEREWINGLE. Woods and hedges: not common. On Ediogley Hill, near Farnsfield: Halam Hill, near Southwell.

 P. May.
- V. caulibus erectiusculis, foliis ovatis ciliatis, major, floribus pedunculatis, dentibus calycinis setaceis elongatis.

82 PENTANDRIA. DIGYNIA. Herniaria.

V. Stems upright: leaves egg-shaped: flowers on fruit-stalks.

GREATER PERIWINCLE. Woods and hedges. In Kirklington Woods. P. May.

DIGYNIA.

HERNIARIA. Smith. 271. With. 269.

Cal. quinquepartitus, inferus. Cor. nulla. Semina squamis 5, filiformibus interjectis. Caps. monosperma calyce tecta.

Cal. with 5 divisions. Bloss. none. Stam. 5 perfect, and 5 imperfect. Caps. 1-seeded.

glabra. H. glabra herbacea.

H. Plant smooth.

SMOOTH RUPTURE WORT. In gravelly soils.

Quonce Close, mear Newark; and sandy closes thence towards Hawton.

P. July, August.

CHENOPHODIUM. Smith. 272. With. 270.

Cal. quinquepartitus, inferus. Cor. nulla. Semen unicum, lenticulare, calyce clauso, pentagono, tectum.

Cal. with 5 clefts and 5 ribs. Bloss. none. Seed 1, round but flatted, fuperiour, horizontal, covered by the closing calyx.

* Foliis angulosis.

1 Leaves angular.

Bonus C. foliis triangulari- sagittatis integerrimis, spi-Henricus. cis compositis aphyllis.

PENTANDRIA. MONOGYNIA. Chenopodium. 83

- C. Leaves triangular-arrow-shaped, very entire: spikes compound, leafless: auxillary.
- PERENNIAL GOOSE-FOOT. MERCURY GOOSE-FOOT. Among rubbish; on road sides and walls; sometimes in pastures. In Southwell Church-yard.
 P. May---Aug.
- C. foliis rhomboideo-triangularibus sinuato- rubrum. dentatis, racemis erectis compositis foliolofis.
- C. Leaves heart-triangular, rather blunt, and toothed: bunches upright, compound, somewhat leafy, shorter than the stem.
- RED GOOSE-FOOT. Dunghills, rubbish, and cultivated ground. Southwell; Mansfield; Newark.

 A. August.
- C. foliis ovatis nitidis acutis dentatis, race- murale. mis ramosissimis cymosis aphyllis.
- C. Leaves egg. Shaped, Shining, toothed, acute; bunches branching, leafless.
- NETTLE-LEAVED GOOSE-FOOT: Dunghills and rubbish. A. Aug. Sept.
- C. foliis rhomboideo-ovatis erosis postice in- album: tegris: superioribus oblongis integerrimis, seminibus lævibus.
- C. Leaves diamond-triangular, gnawed, entire behind; the uppermost oblong: bunches upright.
- WHITE GOOSE-FOOT. Cornfields, old dunghills, rubbish, and gardens; common. Southwell; Newark; Mansfield.
 - * * Foliis integris.
 - & Leaves entire.

84 PENTANDRIA DIGYNIA. Ulmus.

- olidum. C. foliis rhombeo-ovatis integerrimis, racemis conglomeratis.
 - C. Leaves very entire. diamond-egg-shaped; flowers congregated auxillary.
 - Ch. Vulvaria. LINN.
 - STINKING GOOSE-FOOF. Road sides, old walls, and rubbish. At Halam, on a bank near a nursery in the occupation of one Pradley; Pev. J. T. BECHER. Behind the Alms Rottes, and between Chapet Bar and the Sand Hills, at Notingham. DERRING.

A. August.

- ULMUS. Smith. 281. With. 278.
- Cal. quinquefidus, inferus, persistens Cor. nulla. Capfula membranacea, compressoplana, monosperma.
- Cal. 5-clest. Bloss. none. Caps. superiour, 1-celled; least-like and compressed. Seed solitary.
- campes-U. foliis duplicato-serratis scabris basi inætris. qualibus, floribus subsessilibus congestis.
 - U. Leaves doubly serrated, unequal at the base: flowers almost sitting, crowded toge-ther.
 - COMMON ELM. Hedge-rows; common.
 T. April, May.
- monta. U. foliis duplicato-sciratis acuminatis basi inna. æqualibus, floribus peduncularis essisis.
 - U. Leaves doubly ferrated, unequal at the base, egg-shaped, but taper-pointed; smooth.
 - BROAD-LEAVIDELM. WYCHWAZEL. WYCH ELM. Woods and hedres. Less frequent than the preceding species. Between Newark and Galde ton. To March, April.

- CUSCUTA. Smith. 282. With. 209.
- Cal. 4 vel 5-fidus, inferus. Cor. monopetala, 4 vel 5-fida. Capfula bilocularis, basi circumscissa. Sem. bina.
- Cal. 4 or 5-cleft. Bloss. 1 petal. Caps. 2-celled, cut round. Seeds in pairs.
- C. floribus sessilibus, staminibus basi squama Epithycrenata munitis, stigmatibus acutis. mum.
- C. Flowers sitting, 5-clefted, surrounded by floral leaves.
- LESSER DODDER. Cornfields and heaths; not very common. Southwell. P. August.
- GENTIANA. Smith. 284. With. 280.
- Cor. basi tubulosa; poris nectariferis destituta. Caps. supera, unilocularis, bivalvis, polysperma.
- Bloss. 1 petal. Recept. of the feeds, 2, placed length-ways. Caps. 2-valved, 1-celled.
- G. corolla campanulata quinquefida, floribus Pneumopedunculatis, foliis linearibus. nanthe.
- G. Blossoms 5-cleft; bell-shaped; on fruitfalks: leaves strap-shaped.
- MARSH GENTIAN. CALATHIAN VIOLET.

 Moist heaths. On the Moors of Langford and Stapleford, abundantly. A variety with white flowers, is
 found on these moors.

 P. August, Sept.
- G: corolla quinquesida, hypocraterisormi Amarelfauce barbata, laciniis calycinis æqualibus. la.
- G. Blossoms 5-cleft, salver-shaped: mouth bearded: calyx segments equal.

86 PENTANDRIA DIGYNIA. Hydrocotyle.

- AUTUMNAL GENTIAN. Dry pastures, mostly on oalcareous soils. About Kirklington Temple; among limestone rocky ground about Mansfield, plentfully.

 A. August.
- tris. barbata, laciniis caylcinis exterioribus maximis.
 - G. Blossom 4 or 5-cleft: mouth bearded: calyx segments, 2 of them larger:
 - FIELD GENTIAN. Mountainous pastures; rare; On the sides of the hills by the road from Markham Moor to Great Markham, near Tuxford.

 A. Sept.
 - HYDROCOTYLE. Smith. 290. With. 284:
 - Umbella simplex. Invol. tetraphyllum. Petala integra. Fructus orbiculatus, compressus.
 - Umbel simple, on a foot-stalk. Involucr. of 2 or 4 leaves. Petals entire. Fruit compressed, bulging, divisible into 2 parts.
- vulgaris. H. foliis peltatis, umbellis quinquesloris.
 - H. Leaves target-shaped, notched: umbels 5-flowered.
 - MARSH PENNYWORT. WHITE-ROT. Marshy grounds and ditches. In the Quonce-hill Close, near Newark; Old Trent Ditches beyond the Bridge, particularly about Fidler's Bridge, on the Foot-road to Kelham; Marshes about Papplewick; Basford Scottum; Gravel-pits on Edingley Moors. P. May, June.
- inunda- H. foliis pinnatis incisis, submersis mutifidotum. capillaceis; umbellis quinquefloris binatis.
 - H. Creeping: leaves under water, hair-like; those above, winged: umbels of 2 spokes. Sison inundatum. LINN. With.

FLOATING WHITE-ROT. Ditches, pools, and ground subject to inundation; not frequent. Gravel pits near Kirklington Mill. B. May.

SANICULA. Smith. 291. With. 284:

- Umbellæ confertæ, subcapitatæ. Petalæ inflexa. Fructus setis uncinatis muricatus. Flores disci abortientes.
- Umbellules crowded, forming a kind of head. Florets of the centre barren. Fruit set with hooked prickles.
- S. foliis radicalibus simplicibus, floribus omnibus sessilibus.

 pæa.
- S. Root leaves simple: florets all sitting.
- WOOD SANICLE. Woods and thickets. In the Thickets near Oxton Toll-bar; Westhorpe Dumble, near Southwell; Halam and Edingley Hills, near Farusfield; and in the following Woods, Kneeton, Flintham, Ossington, Wernham, Colwick, Broxtow, Lounds, Eakringbrail, Eperstone, Oxton, and Brockwood Hills.

CAUCALIS. Smith. 296. With. 287.

- Involucra indivisa. Corolla radiata. Flores disci masculi. Fructus subovatus, striatus, setis rigidis muricatus.
- Blossom radiated. Florets of the centre male. Involucr. leafits entire. Petals bent inwards, notched at the end. Seeds covered with prickles or briftles.
- C. umbellis multifidis confertis, involucro Anthrispolyphyllo, foliolis pinnatifidis, ramis erec- cus. tiusculis.
- C. Seeds oval, rough on the back, with scattered prickles. LINN. Involucrum many-

88 PENTANDRIA. DIGYNIA. Daucus.

leaved: seeds egg-shaped: styles reflected: leaves doubly compound: the terminating leasit strap-spear-shaped. AIT. H. KEW.

UPRIGHT HEDGE-PARSLEY. Hedges, common. Southwell; Newark. A. July.

DAUCUS. Smith. 300. With. 289.

Involucra pinnatasida. Corolla subradiata. Fructus muricatus.

Bloss. fomewhat radiated, (generally) all the florets hermaphrodite. Leafits of the involucrum divided. See is with membranaceous toothed ridges:

Carota. D. fructibus hispidis, petiolis subtus nervosis.

D. Angles of the seeds 4, distant, hispid: leaf-stalks fibrous underneath: umbel concave when in seed.

WILD CARROT. Borders of fields, and hedge banks; common. Southwell; Newark; Nottingham; Mansfield.

B. June, July.

BUNIUM. Smith. 301. With. 291.

Corolla uniformis. Umbella conferta. Fructus ovatus.

Bloss. uniform. Umbel crowded. Styles bene back, deciduous. Seeds rather cylindrical, foored, thicker towards the end.

flexuo-B. involucro subtriphyllo, caule basi aphyllo fum. attenuato flexuoso.

B. Involucrum from 1 to 3 leaves, deciduous: stem leafless at the base, tapering down-wards, zig-zag: styles permanent.

COMMON EARTH-NUT. KIPPER, or PIG-NUT. Meadows and pastures; frequent. Newark; Southwell. P. May, June.

CONIUM. Smith. 302. With. 292:

- Involucella dimidiata, subtriphylla. Fructus ovatus, gibbus, utrinque quinque-costatus; costis ante maturitatem crispis. Petala equalia.
- Involucellum going half-way round, of about 3 leaves. Fruit egg-shaped, bulging, ribs compressed, waved before the fruit is ripe.
- C. seminibus inermibus, caule ramosissimo macuanitido maculato. latum:
- C. Seeds without prickles: stem greatly branched, smooth, spotted.
- COMMON HEMLOCK. Hedges, orchards, rubbish, and cultivated ground. Newark; Southwell. P. July.
- PEUCEDANUM. Smith. 304. With. 294.
- Fructus ovatus, utrinque striatus, ala cinctus. Calyx quinquedentatus. Involucra brevissima. Flores disci abortivi.
- Involucrums very short. Fruit elliptical, slightly ridged, compressed and bordered.
- P. foliolis pinnatifidis: laciniis oppositis de- Silaus. currentibus, involucro universali subdiphyllo.
- P. Leafits wing-cleft: segments opposite: involucrum of 2 leaves.
- MEADOW SAXIFRAGE, or SULPHUR-WORT.

 Moistish meadows and pastures. In the Meadows of
 Newark, and in Averham Meadow.
- DEERING mentions P. OFFICINALE, as growing in Colwick Wood; which is so manifest an error, that I should not have bestowed an observation upon it, did I not find the same habitat given to the same plant in Turner's Botanist's Guide, with the name of MARTYN subjoined as an authority.

 P. August.

90 PENTANDRIA. DIGYNIA. Heracleum.

- HERACLEUM. Smith. 306. With. 295.
- Fructus ellipticus, emarginatus, compressus, striatus, margine dilatatus. Flores radiantes. Petala inflexo-emarginata. Involucrum caducum:
- Involucr. shedding. Bloss. irregular. Petals bent inwards, notched at the end. Seeds compressed, leaf-like, smooth, encompassed by a narrow membranaceous border.
- Sphon. H. foliis pinnatis: foliolis pinnatifidis incisis dylium. serratis.
 - H. Leafits wing-cleft, even: flowers radiated:
 - COMMON COW PARSNEP. HOGWEED. In hedges, meadows, and pastures; common. Southwell; Newark. B. July.
 - ANGELICA. Smith. 311. With. 297.
 - Fructus subrotundus, solidus, utrinque trialatus. Calyx quinquedentatus. Corollææquales. Petala incurva. Styli reflexi.
 - Bloss. equal. Petals bent inwards. Styles reflected. Fruit roundish.
- sylves- A: foliolis æqualibus ovatis serratis.
 - tris. A. Leafits equal, egg-spear-shaped, serrated.
 - WILD ANGELICA. Marshy woods and hedges; not uncommon. Westhorpe Dumal, near Southwell; Eperstone Wood. P. July.
 - SIUM. Smith. 312. With. 298.
 - Fructus subovatus, compressus, striatus. Involucra polyphylla. Petala cordata, uniformia.
 - Involucrum many-leaved. Petals heart-shaped.

 Styles bent back. Fruit roundish.

- S soliis pinnatis: foliolis oblongo-lanceolatis latifozequaliter serratis. lium.
- S. Leaves winged: leafits egg-spear-shaped, regularly and sharply serrated; the terminating nating leafit 3-cleft: umbels terminating.
- BROAD-LEAVED WATER PARSNEP. Rivers and deep ditches; not frequent. Old Trent Ditches, near Averham Meadows; Banks of the Greet, near Southwell.

 P. July, August.
- S. foliis pinnatis: foliolis inæqualiter lobatis angustiserratisque, umbellis pedunculatis oppositi- folium. foliis, caule erecto.
- S. Leaves winged, leafits irregularly jagged and ferrated: involucrum wing-cleft: umbels on fruit-stalks, auxillary.
- NARROW-LEAVED WATER PARSNEP. In ditches and rivulets; with S. nodiflorum. In Ditches near Newark Bridge, and in the Parks at Southwell.
 P. July, August.
- S. foliis pinnatis, foliolis ovatis æqualiter ser- nodifloratis, umbellis sessilibus oppositifoliis, caule rum. V procumbente.
- S. Leaves winged; leafits tooth-serrated: umbels lateral, opposite the leaves, sitting or on fruit-stalks.
 - CREEPING WATER PARSNEP. In rivers and ditches. Edingley Moors; Ditches in the Parks at Southwell; and by the side of the Road from Newark Bridge to Kelham.

 P. July, August.
- SISON. Smith. 315. With. 300.
- Fructus ovatus, striatus. Involucra subtetraphylla. Petala lanceolata, inflexa.
- Involucrum about 4 leaves. Fruit egg-shaped, scored. Styles bent back.

92 PENTANDRIA. DIGYNIA. Cananthe.

- Amo- S. foliis pinnatis, umbellis erectis subquadrimum. radiatis.
 - S. Leaves winged: umbels upright.

 HEDGE HONE-WORT. BASTARD-STONE
 PARSLEY. Woods and hedges; not very common.
 Southwell; Newark.
 - CENANTHE. Smith. 317. With: 301.
 - Flosculi difformes; disci sessiles, steriles. Fructus calyce stylisque coronatus, cortice suberoso.
 - Florets of different shapes, those in the centre sitting, barren. Fruit with a cork-like coat, oblong, scored; crowned by the styles and the ćalyx, which are permanent.
- fistulo- Œ stolonifera, foliis caulinis pinnatis filiforsa. mibus, fistulosis, involucro universali subnullo.
 - Œ. sending forth suckers: stem leaves winged; thread-shaped; hollow.
 - COMMON WATER DRO -- WORT. Ponds and ditches; frequent. Newark and Averham Meadows; Meadow near the Cotton-mill at Southwell

P. July, August.

- peuceda. Œ. foliolis omnibus lineraribus, involucro nufolia. nullo, tuberibus radicalibus ellipticis sessilibus.
 - CE. Leafits all linear; general involucrum none: knobs of the root sessile, elliptical. English Botany.
 - SULPHUR-WORT. WATER DROP-WORT. Slow streams, ponds, and ditches; not very common. Halam Bottoms, and about the Cotton-mill at Southwell. P. July.
 - PHELLANDRIUM. Smith. 321. With. 303.

Flosculi omnes fertiles; disci minores. Fructus ovatus, lævis, calyce stylisque coronatus.

Central florets smallest. Fruit egg-shaped, smooth, crowned with the pistil and the calyx.

P. foliorum ramificationibus divaricatis.

aquati-

P. Ramifications of the leaves straddling.

cum.

WATER-HEMLOCK. In river, ditches, and pools; not common. Ditches in Mr. Bell's close, on the way to Averham Meadows; and near the River Trent, in Newark Meadow.

B. June, July.

CICUTA. Smith. 322. With. 304.

Fructus subovatus, sulcatus. Corolla regularis.

Fruit nearly egg-shaped; ribbed.

C. umbellis oppositifoliis, stipulis petiolo ad- virosa, natis obtusis.

C. Umbels opposite the leaves: leaf-stalks bor-dered, blunt.

WATER-HEMLOCK. WATER-COWBANE. Sides of pools and rivers; frequent. Southwell; Newark. P. August.

ETHUSA. Smith. 323. With. 304.

Fructus striatus. Involucella dimidiata, triphylla, pendula.

Involucellums reaching half-way round, 3leaved, bent downwards. Fruit nearly globular, deeply furrowed.

Œ. foliis conformibus.

Cynapi-

CE. All the leaves alike, fruit nearly globular. um.

FOOL'S-PARSLEY. LESSER HEMLOCK. Comfields, hedge banks, and kitchen gardens; common. Southwell; Newark.

A. August, Sept.

94 PENTANDRIA. DIGYNIA. Scandix.

- SCANDIX. Smith. 323 With. 306.
- Flores radiantes. Petala emarginata. Fructus subulatus. Flores disci sæpe masculi.
- Bloss. radiated. Central Florets frequentlymale. Petals notched at the end. Styles permanent. Fruit awl-shaped.
- Pecten. S. seminibus longissime rostratis scabriuscu-Veneris. lis, foliólis lineari-multipartitis.
 - S. Seeds with a very long beak: leafits with many fine divisions.
 - NEEDLE-CHERVIL. VENUS'S-COMB. SHEP-PHERD'S NEEDLE. Cornfields; common. Southwell; Newark.

 A. June, July.
- Anthris-S. seminibus ovatis hispidis, corollis uniforeus. mibus, caule lævi.
 - S. Seeds egg-shaped, rough with hair: blossoms uniform: stem smooth. Caucalis scandicina. With.
 - ROUGH CHERVIL. Hedges and meadows. On Nottingham Castle Rock. A. May.
 - CHÆROPHYLLUM. Smith. 325. With. 308.
 - Petala cordata. Fructus oblongus, læviusculus. Involucella reflexa, concava.
 - Involucellum reflected, concave. Petals heartfhaped, bent inwards. Fruit shining, generally smooth, oblong.
 - sylves- C. caule striato lævi, geniculis tumidiuscu-
 - C. Stem smoothish, scored, a little swollen at the knots.

- SMOOTH COW-PARSLEY. WILD CHERVIL. Hedges; orchards and pastures; common. Southwell; Newark. P. April, May.
- C. caule scabro, geniculis tumidis. temulen-
- C. Stem spotted, joints swollen: stem and tum. leaves rough: leasits cut, acute.
- ROUGH COW-PARSLEY. ROUGH CHERVIL. Hedges; common. Southwell; Mansfield; Nottingham. B. June, July.
- PASTINACA. Smith. 328. With. 309.
- Fruetus ellipticus, compresso-planus. Petala involuta, integra.
- Petals rolled inwards; entire. Seeds elliptical compressed, leaf-like, smooth; border thin, narrow.
- P. foliis simpliciter pinnatis subtus pubescen- Jaliva.
 -tibus.
- P. Leaves simply winged.
- WILD PARSNEP. Borders of ploughed fields, in limestone soils. By the side of the Road from Southwell to Averham, in many places.

 B. July.
- SMYRNIUM. Smith. 328. With. 310.
- Fructus oblongus, angulato-costatus. Petala acuminata, carinata, incurva.
- Petals keeled, tapering to a point. Fruit eggglobular, bulging, angular, with ribs.
- S. foliis caulinis ternatis petiolatis serratis.
- Olus-
- S. Stem leaves growing by threes; on leaf-stalks; atrum. ferrated.
- ALEXANDERS. Ditches and rocks; very rare. On Nottingham Castle Rock.

 B. May.

96- PENTANDRIA. DIGYNIA. Anethum:

- ANETHUM. Smith. 329. With. 310.
- Fructus ovatus, subcompressus, striatus. Petala involuta, integra.
- Petals entire; rolled inwards. Fruit lentilshaped, but compressed; small, scored, bordered.
- Fanicu- A. fructibus gibbis, foliis caulinis numerosis lum. deflexis.
 - A. Leaves with many divisions, hair-like: feeds egg-oblong, tapering at each end, not bordered.
 - COMMON FENNEL. Chalk cliffs; rare. Notting-ham Castle Rocks. B. July, August.
 - CARUM. Smith. 330. With. 311.
 - Fructus elliptico-teres, striatus. Petala carinata, inflexo-emarginata. Involucrum universale sub-monophyllum.
 - Involuer. 1 leaf. Petals united, bent inwards, notched at the end. Fruit small, elliptical, bulging, roundish and scored.

Carui. CARUM.

- COMMON CARAWAY. Meadows and pastures; very rare. In that part of the meadow at Newark, near the River Trent, facing the entrance gate.

 B. June.
- PIMPINELLA. Smith. 331. With. 311.
- Fructus ovato-oblongus, striatus. Petala inflexa. Stigmata subglobosa.
- Petals bent inwards. Styles upright. Summits nearly globular. Fruit small, egg-oblong: with 5 elevated ridges.

- P. foliis pinnatis: foliolis radicalibus subro-saxifratundis: summis linearibus. ga.
- P. Leaves winged: leasits on the root-leaves roundish, those of the upper ones strap-shaped.
- COMMON BURNET SAXIFRAGE. Meadows and pastures; in gravelly or calcareous soils; not common. In Newark and Averham Meadows; Quonce Hill Close; Edingley Hill; Halam Hill

P. July, August.

- P. foliis pinnatis: foliolis omnibus ovatis; magna. impari trilobo.
- P. Leaves uniform, winged; leasits spear-shaped, irregularly servated; floral leaves wingcleft.
- GREAT BURNET SAXIFRAGE. Woods and hedges; in limestone. Hedges about Southwell, and on the road from Oxton to Southwell; thickets near Oxton Toll bar; Eperstone Woods.

 P. July, August.
- APIUM. Smith. 333. With. 314.
- Fructus ovatus, costatus. Petala inflexa, æqualia. Involucrum monophyllum.
- Involucr. 1 leaf. Petals equal. Fruit small, bulging, ribbed. Styles bent backwards.
- A. foliolis caulinis cuneiformibus, caule sul- gravescato. lens.
- A. Stem leaves wedge Shaped.
- SMALLAGE. WILD CELETY. In difches and marshes. Ki klington Toll-bar; Halam cross; by the side of Thurgarton water, opposite Mr. Brettle's garden wall; side of the Leen at Lenton, near Nottingham.

B. August.

ŒGOPODIUM. Smith. 33. With. 314:

98 PENTANDRIA. TRIGYNIA. Viburnum.

Fructus ovato-oblongus, costatus. Petala inflexo-cordato, inæqualia.

Fruit egg-oblong, scored; tapering at each end.

Poda- ŒGOPODIUM.

graria. Œ. Upper leaves 3 together, lower ones in triple threes.

GOUT WEED. HERB GERARD. Hedges, orchards and pastures. Hedges about the Spring Gardens, near the Quonce Close, Newark, abundantly. P. May, June.

3 TRIGYNIA.

VIBURNUM. Smith. 334. With. 315.

Cal. superus quinquepartitus. Cor. quinque-fida. Bacca monosperma.

Cal. with 5 divisions, superiour. Bloss. 5-cleft. Berry of 1 cell; closed. Seed 1.

Opulus: V. foliis lobatis, petiolis glandulosis.

V. Leaves lobed: leaf-stalks set with glands.

COMMON GUELDER ROSE. WATER ELDER. Woods and wet hedges; not common. Westhorpe Dumal, near Southwell; Hockerton; Kirklington. S. June.

SAMBUCUS. Smith. 335. With. 316.

Cal. superus, quinquepartitus. Cor. quinquefida. Bacca trisperma.

Cal. 5-toothed. Bloss. regular, with 5 shallow clefts. Berry juicy, closed, many-seeded.

PENTANDRIA. TETRAGYNIA. Parnassia. 99

- S. cymis tripartitis, stipulis foliaceis, caule Ebulus. herbaceo.
- S. Tufts with 3 divisions: stipulæ leaf-like:, stem herbaceous.
- DWARF ELDER. DANE-WORT. Hedges; road sides; orchards: rare. In Bennet's Hop Yard Close, at Halam; by the side of the road at Gonalston Mill. At Gamston, and in Bunny Lane. DEERING. P. July.
- S. cymis quinquepartitis, foliolis ovatis ser- nigra. ratis, caule arboreo.
- S. Tufts with 5 divisions: leaves winged: leafits nearly egg-shaped, serrated: stem tree-like.
- COMMON ELDER. Woods and hedges; common: Southwell; Nottingham; Mansfield; Newark. S. April, May.
- B. Sambucus fructu albo.

WHITE-BERRIED ELDER. In Graves-lane, near Edingley.

4 TETRAGYNIA.

PARNASSIA. Smith. 339: With. 319.

- Cal. quinquepartitus. Pet. quinque. Nectaria quinque, cordata, ciliata apicibus globosis. Capfula quadrivalvis.
- Cal. with 5 divisions. Petals 5. Nectaries 5, heart-shaped, fringed, with little balls on the top of the fringe. Caps. 4-valved. 1-celled: Seeds with a membranaceous border.

100 PENTANDRIA. PENTAGYNIA. Linum.

palustris. PARNASSIA.

P. Nectaries simple.

GRASS OF PARNASSUS. Moist meadows; somewhat rare. In the Parks at Southwell, and in the Meadow near the Water-mill; in a Close at Halam, with Pinguicula Vulgaris. In the Lawn at Kirklington, the seat of Mrs. Whetham; Bleasby; in the Dam Close at Papplewick.

P. Sept. Oct.

5 PENTAGYNIA.

LINUM. Smith. 339. With. 321.

Cal. pentaphyllus. Pet. quinque. Capsula supera, decemvalvis, decemlocularis. Semina solitaria.

Cal. 5-leaved. Petals 5. Caps. 5-valved, 10-celled. Seeds folitary.

-cathar- L. foliis oppositis obovato-lanceolatis, caule ticum: superne dichotomo, petalis acutis.

I. Leaves opposite, egg-spear-shaped: slem forked: blossom pointed.

PURGING FLAX. Dry meadows and pastures; frequent. Newark; Averham; Southwell.

A. June --- August.

6 HEXAGYNIA.

DROSERA. Smith. 346. With. 323. Cat. quinquesidus. Pet. 5. Capsula unilocularis, trivalvis, supera, polysperma.

PENTANDRIA. POLYGYNIA. Myosurus. 101

- Calyx with 5 divisions. Petals 5. Caps. 1-celled, with 5 valves at the top. Seeds several, fixed to the sides.
- D. foliis orbiculatis radicalibus, scapo race-rotundimoso. folia.
- D. Stalks from the root: leaves circular. LINN. Styles 6. HUDS.
- ROUND-LEAVED SUN-DEW. On mossy bogs, and moor grounds. Coddington; Stapleford and Langford Moors; Oxton Bottoms; Edingley Moor.
 P. July, August.

7 POLYGYNIA.

MYOSURUS. Smith. 348. With. 326.

- Cal. pentaphyllus, basi appendiculatus. Pet. 5, ungue tubuloso, nectarifero. Semina numerosa, nuda.
- Cal. 5 leaves, united at the base, deciduous. Nectaries 5, like petals; awl-shaped. Seeds numerous, coated, pendant.

MYSOSURUS:

minimus.

MOUSE-TAIL. Cornfields, in a gravelly soil; but not common. Among cornfields at Upton near Southwell; At Coddington; and also in sandy ground belonging to my friend Mr. Jacob Ordoyno, who has observed it there for several years. At Normanton, near Southwell, the Rev. J. T. BECHER. This plant being an annual of humble growth, is frequently destroyed or buried for awhile by the operation of fallowing, so that it ocasionally disappears.

A. May, June,

Classis VI.

HEXANDRIA.

Stamina 6.

MONOGYNIA.

Stylus 1.

* Fl. calyculati, calyce corollaque instructi.

1 Flowers with a cup and a blossom.

BERBERIS. Cor. hexapetala. Cal. hexaphyllus, inferus. Bacca disperma.

BERBERIS. Bloss. 6 petals. Cal. 6 leaves; be-neath. Berry 2 feeded.

PEPLIS. Cor. hexapetala. Cal. decemfidus. Caps. bilocularis.

PEPLIS: Calyx 12-cleft. Caps. 2-celled.

* * Fl. spathacei sive glumacei.

2 Flowers with a Sheaf or husk.

GALANTHUS. Cor. supera, hexapetala; petalis tribus interioribus brevioribus, emarginatis.

GALANTHUS. Bloss. Superior; of 6 petals; 3 inner petals Shorter, and notched at the end.

NARCISSUS. Cor. supera, hexapetala. Nectarium campanulatum, petaliferum, stamina includens:

103.

NARCISSUS: Bloss. Superior; of 6 petals. Nectary bell-shaped; surrounding the stamens.

ALLIUM. Cor. infera, hexapetala; petalis ovatis, sessilibus.

ALLIUM. Bloss. beneath; of 6 petals. Petals egg-shaped sitting.

* * * Fl. Nudi.

3 Flowers naked.

CONVALLARIA. Cor. infera, sexfida. Bacca trilocularis. Stigma trigonum.

CONVALLARIA. Bloss. beneath; 6-cleft. Berry 3-seeded.

NARTHECIUM. Cor. infera, hexapetala, patens. Sem. appendiculata. Stam. hirsuta.

NARTHECIUM. Bloss. 6 petals. Style none. Seeds with a tail at each end.

ORNITHOGALUM. Cor. infera, hexapetala. Stam. basi dilatata.

ORNITHOGALUM. Bloss. beneath; of 6 petals. Filaments every other broader at the base.

SCILLA. Cor. infera, hexapetala. Stam. filiformia:

SCILLA. Bloss. beneath; of 6 petals; deciduous: Filaments thread-shaped.

ACORUS. Cor. infera, hexapetala. Spadix multi-florus.

ACORUS. Spike-stalk many-flowered. Caps. 1-celled.

* * * * Fl. incompleti.

4 Flowers without petals.

104 HEXANDRIA. TRIGYNIA:

JUNCUS. Cal. hexaphyllus. Caps. supera, trivalvis, polysperma.

JUNCUS. Calyx 6-leaved. Caps. 1-celled.

TRIGYNIA.

Styli 3.

COLCHICUM. Cal. spatha. Cor. hexapetaloidea.

COLCHICUM. Calyx a sheath. Bloss. like 6 petals.

TRIGLOCHIN. Cal. triphyllus. Pet. tria. Caps. basi dehiscens.

TRIGLOCHIN. Calyx 3-leaved. Bloss. 3 petals. Caps. opening at the base.

RUMEX. Cal. triphyllus. Pet. tria. Sem. uni-

RUMEX. Calyx 3-leaved. Bloss. 3 petals. Seeds 1; 3-cornered.

, , , , , , , ,

POLYGYNIA.

Styli plures.

ALISMA. Cal. triphyllus. Pet. tria. Caps. plures aggregatæ, monospermæ.

ALISMA. Calyx 3 leaves. Bloss. 3 petals. S. Vess. Several.

VI HEXANDRIA.

1 MONOGYNIA.

GALANTHUS. Smith. 353. With. 331.

Cor. supera, hexapetala; petalis tribus interioribus brevioribus, emarginatis. Stigma simplex.

Petals 3, concave. Nectary 3 smaller petals notched at the end. Summit undivided.

GALANTHUS.

nivaliz.

SNOWDROP. Meadows, orchards, and sides of hedges. Hoveringham. P. February.

NARCISSUS. Smith. 353. With. 331.

Cor. supera, hexapetala, æqualis. Nectarium infundibuliforme, monophyllum, petaliferum. Stamina intra nectarium. Stigma tri4 fidum.

Bloss. superiour, of 6 equal petals. Nectary of 1 leaf, surrounding the stamens, mostly funnel-shaped.

N. spatha unislora, nectario campanulato erec- Pseudoto crispo obsolete sexsido petalis ovatis narcisæquali. sus.

N. Sheath 1-flowered: nectary bell shaped, upright, curled; as long as the petals: petals egg-shaped.

common DAFFODIL. In woods and meadows; not common. In a close behind the Thicket near Oxton Toll-bar.

P. March.

ALLIUM. Smith. 355. With. 332.

106 HEXANDRIA. MONOGYNIA. Allium.

- Cor. infera, hexapetala, patens. Spatha bifida, multiflora. Umbella congesta. Stigma simplex.
- Bloss. 6 petals, expanding. Sheath dry and fkin-like, many-flowered. Umbel crowded. Caps. Superior, 3-celled.
- vineale. A. caule teretifolio bulbifero, staminibus tricuspidatis.
 - A. Filaments 3-pointed.
 - CROW GARLICK. Meadows and pastures. Newark; and Averham Meadows, beyond the Cotton Mill, in great abundance; Westhorpe, near Southwell. P. July.
- ursi- A. scapo nudo semicylindrico, foliis lanceolanum. tis petiolatis, umbella fastigiata.
 - A. Stalk 3-square: leaves spear-shaped, on leaf-stalks: umbel flat-topped.
 - BROAD-LEAVED GARLICK RAMSONS. Woods and hedges. Hedges on the left-hand about a mile from Southwell on the Nottingham Road; and in the following Woods; Eperstone, Oxton, Colwick, Flintham, Loundes, and Broxtow. P. May, June.

ORNITHOGALUM. Smith. 362. With.

- Cor. hexapetala, persistens, supra medium patens. Filamenta basi dilatata. Capfula supera, trilocularis. Semina subrotunda. Cal. nullus.
- Bloss. 6 petals, upright, permanent, above the middle expanding. Filaments the alternate ones dilated at the base. Caps. superior, 3-celled.
- umbella-O. floribus corymbosis, pedunculis scapum tum. superantibus, filamentis subulato-dilatatis integerrimis.

- O. Flowers forming a corymbus; outer fruitstalks taller than the central ones.
- COMMON STAR OF BETHLEHEM. Woods, meadows and pastures; rare. In the fields on the left hand side of a small stream, near the foot-road leading from Kirkby to Kirkby Hardwick, plentifully, and apparently wild. Rev. J. T. BECHER. P. April, May.
- SCILLA. Smith. 366. With. 343.
- Cor. hexapetala, patens. Filamenta filiformia. Capsula supera, trilocularis. Semina subrotunda. Cal. nullus.
- Bloss. bell-shaped, permanent. Segments rolled back. Germen with 3 nectariferous pores at the top.
- S. foliis linearibus, spica nutante, floribus nutans. cernuis campanulato-cylindricis apice reflexis, bracteis geminis.
- S. Bloss tubular bell shaped, with 6 divisions: segments rolled back: floral leaves in pairs.
- Hyacinthus nonscriptus. LINN. With.
- HARE-BELL-SQUILL. WILD HYACINTH. Woods and hedges. In Eperstone, Flintham, Colwick, and Asply Woods; Thickets near Oxton Tollbar; and Southwell.
- NARTHECIUM. Smith. 368. With. 339:
- Cor. hexapetala, patens, persistens. Filamenta filsiormia, hirsuta. Capsula supera, prismatica. Semina utrinque appendiculata. Cal. nullus.
- Bloss. 6 petals, permanent. Style none. Caps: egg-shaped. Seeds tapering to each end.

168 HEXANDRIA. MONOGYNIA. Narthecium.

ossifra- NARTHECIUM.

gum. Anthericum ossifragum: LINN.

LANCASHIRE ASPPODEL. On turf bogs; very rare. Two plants were found on Coddington Moor, by Mr. JACOB ORDOX NO.

CONVALLARIA. Smith. 370. With. 341.

Cor. sexfida. Cal. nullus. Stylus staminibus - longior. Stigma trigonum. Bacca supera, trilocularis, ante maturitatem matulata.

Bloss. 6-cleft. Berry 3-celled, Juperior. Seeds 2.

onajulis. C. scapo nudo semicylindrico, floribus spicatis pedicellatis nutantibus.

C. Stalk naked: femi-cylindrical, flowers fpiked, nodding.

LILY OF THE VALLEY. MAY LILY. Woods and heaths. In a wood called the Great Wood, about a mile on the right from Potter's Hill, going from Newark on the Lincoln road; in a valley at Cockglode, near Ollerton, plentifully.

P. May.

ACORUS. Smith 373. With. 343.

Spadix cylindricus, tectus flosculis. Cor. hexapetala, nuda. Etylus nullus. Capsula trilocularis.

Spadix cylindrical, covered with florets. Bloss. 6 petals, naked. Style none. Caps. 3-celled.

Calamus. A. scapi mucrone longissimo foliaceo.

A. Floral leaf very much longer than the spike.

SWEET FLAG. Eanks of rivers with a muddy bottom. By the side of the river Soar, in going to Swarstone Bridge, from Nottingham, in several places. P. June.

JUNCUS. Smith. 374. With. 344.

Cal. hexaphyllus, persistens. Cor. nulla. Capsula supera, trivalvis, uni-vel-trilocularis. Semina plurima. Stigmata tria.

Husk 2 leaves. Calyx 6-leaved, permanent: Bloss. none. Caps. superiour, 3-celled, 3-valved, many-seeded; or else 1-celled, and 3-seeded.

* Culmis nudis.

1 Straw naked.

J. culmo nudo stricto, panicula laterali con- congloglobata, capsulis retusis, floribus triandris. meratus.

J. Straw stiff and straight: flowers in a lateral head; egg-shaped, blunt, 3 stamens in each.

COMMON RUSH. Wet mendows and pastures; common. P. July.

- J. culmo nudo stricto, panicula laterali ef- effusus. fusa supradecomposita, capsulis obtusis.
- J. Straw stiff and straight: panicle lateral, loose: flowers egg-shaped, blunt, 3 stamens in each.

SOFT RUSH. Wet meadows and pastures: P. July.

* * Culmis foliosis.

2 Straws leafy.

- J. foliis nodoso-articulatis, capitulis panicu- articulalatis multifloris. tis.
- J. Leaves with knot-like joints: flowers panicled: petals blunt.

JOINTED RUSH. Meadows and pastures. P. June.

110 HEXANDRIA. MONOGYNÍA. Juncus.

- bulbosus. J. foliis linearibus canaliculatis, culmo basi folioso, panicula cymosa, capsulis obtusis.
 - J. Straw undivided, somwhat compressed: leaves strap-shaped, channelled: panicle terminating, shorter than the floral leaf: cups and capsules blunt.
 - ROUND-FRUITED RUSH. Wet meadows and heaths; In Mr. Kirk's Greet Meadow at Normanton, near the foot-path; and in the Parks, adjoining the Bleach-yard close, Southwell.

 P. July.
 - bufonius. J. foliis linearibus canaliculatis, culmo dichotomo racemoso, floribus solitariis.
 - J. Straw forked: flowers solitary, sitting: calyx leafits spear-shaped, sharp-pointed: capsule egg-shaped, shorter than the calyx.
 - TOAD RUSH. Wet gravelly sandy meadows or pastures. A. July, August.
 - pilosus. J. foliis planis pilosis, panicula cymosa divaricata, floribus solitariis.
 - J. Leaves flat, hairy: corymbus branching. LINN. Flowers solitary. HUD.
 - HAIRY RUSH. Woods; common. P. April, May.
 - sylva- J. foliis planis pilosis acuminatis, panicula ticus. cymosa-decomposita, floribus fasciculatis.
 - J. Leaves flat, hairy: panicle terminating, very much branched: flowers 1, 2, or 3 together.
 - J. maritimus. With.
 - WOOD RUSH. Woods and hedges; not common. Eperstone Wood. P. May, June.
 - campes- J. foliis planis pilosis, spicis terminalibus tris. sessilibus pedunculatisque, capsulis obtusis.

HEXANDRIA. MONOGYNIA. Berberis. 111

- J. Leaves flat, somewhat hairy: spikes sitting, and on fruit-stalks.
- HAIRY-FIELD RUSH. Pastures, meadows and heaths; common. P. April, May.
- BERBERIS. Smith. 387. With. 351.
- Cal. hexaphyllus. Petalà 6; ad ungues glandulis duabus. Stylus nullus. Bacca supera, disperma.
- Calyx 6 leaved. Petals 6, with 2 glands to the claw. Style none. Berry superior, 1-celled; open at the end. Seeds 2 or 3.
- B. floribus racemosis, spinis triplicibus, foli-vulgaorum serraturis aristatis.
- B. Fruit-stalks forming bunches; thorns 3 to-gether.
- BARBERRY. Woods and hedges; not common. Holt side, at Normanton, near Southwell; in a hedge about half-way between Retford and Worksop, opposite Mr. Foljambe's house, at Osberton; hedge in the church-yard at Holme Pierrepont, near Nottingham; Fiskerton-upon-Trent. S. May, June.
- PEPLIS. Smith: 389. With. 352.
- Cal. campanulatus, ore duodecimfido, Petala.
 6, calyci inserta. Capsula supera, bilocularis.
- Calyx bell-shaped, rim 12-cleft. Petals none, or 6, fixed to the cup. Caps. superior, 2-celled, many-seeded.
- P. floribus subapetalis foliis obovatis.

Portula.

P. Flowers often without petals:

F12 HEXANDRIA. TRIGYNIA. Rumex.

WATER-PURSLANE. Marshy and watery places, especially such as become dry in Summer. On the Moors of Stapleford, Coddington, and Langford; Farnsfield Carr; Edingley Moor. A. July, Aug.

TRIGYNIA.

RUMEX. Smith. 390. With. 353.

Cal. triphyllus. Petala 3, conniventia. Semon unicum, triquetrum, superum, nudum. Stigmata multifida.

Calyx 3-leaved. Petals 3, closing. Seed 1, three-cornered, inclosed in the bloss om.

* Flores hermaphroditici.

1 Flowers hermaphrodite.

sanguin- R. valvulis integerrimis oblongis, unica præeus. cipue granifera, foliis cordato-lanceolatis.

R. Valves very entire: leaves heart-spear-shaped.

BLOODY-VEINED DOCK. Woods and road sides; not common. Farm yards at Mansfield. DEERING. MARTYN.

rus, foliis lanceolatis undulatis acutis.

R. Valves strongly veined: leaves spear-shaped, acute, waved and curled at the edge.

CURLED DOCK. Meadows, pastures, road sides, and cultivated ground; in almost all soils; common.

P. June, July.

- R. valvulis oblongis subdentatis omnibus acutus. graniferis, foliis cordato-oblongis acuminatis, racemis foliolosis.
- R. Valves veinless: leaves oval-spear-shaped, uneven at the edges.
- SMOOTH SHARP DOCK: Woods, hedges, road sides and rivers; sometimes in fields and meadows; common.

 P. July.
- R. valvulis dentatis unica præcipue granifera, obtusifoliis radicalibus cordatis obtusis, caule folius. scabriusculo.
- R. Leaves heart-oblong, bluntish, finely notched.
- BROAD-LEAVED DOCK. Among rubbish, farm yards, courts, and sides of ditches; common.

 P. July, August.
- R: valvulis deltoideis setaceo-dentatis grani- maritiferis, foliis lineaeribus, verticillis confertis. mus.
- R. Leaves strap-shaped: flowers in distant whirls.
- GOLDEN DOCK. Road sides and among rubbish; not common: By the side of the River Leen, at Snenton, in going from the Meadows to the Trent. DEER-ING MARTYN. P. July, August.
- R. valvulis ovatis integris obsolete graniferis, aquatitoliis cordato-lanceolatis acutis. cus.
- R. Leaves spear-shaped, smooth, acute, very entire, tapering at the base.
- R. Hydrolapathum. With.
- GREAF WATER-DOCK. Peat marshes, wet ditches, pools, and sides of rivers. Edingley Moor.
 P. July, August.

114 HEXANDRIA. TRIGYNIA. Triglochin.

* * Flores diclini.

2 Male and female flowers on distant plants:

Acetosa. R. floribus dioicis, foliis oblongis sagittatis. valvulis graniferis.

R. Leaves oblong, arrow-shaped.

COMMON SORREL. Meadows and pastures; common. Newark; Southwell; Mansfield; Nottingham.

P. June.

Aceto- R. floribus dioicis, foliis lanceolato-hastatis, sella. valvulis grano destitutis.

R. Leaves spear-halbert-shaped.

SHEEP'S SORREL. Sandy meadows and pastures, in gravelly soil. Farnsfield: Blidworth.

P. May, Junes

TRIGEOCHIN. Smith. 398. With. 359.

Cal. triphyllus. Petala tria, calyciformia. Styli nulli. Capsulæ superæ, basi dehiscente. Semina solitaria.

Cal. 3-leaved. Petals 3, like a cup. Style none: Caps. opening at the base.

palustre. T. capsulis trilocularibus sublinearibus.

T. Capsule 3-celled, nearly strap-shaped.

MARSH ARROW-GRASS. Wet meadows and pastures. In the Parks at Southwell; Edingley Moor; Oxton Stews. P. July.

COLCHICUM. Smith. 399. With. 359. Cal. spatha. Cor. sexpartita, tubo radicali. Capsua tres, superæ, connexæ, inflatæ, polyspermæ.

Calyx none. Bloss. with 6 divisions. Tube very long, extending down to the root. Caps. 3, inflated, united.

C. foliis planis lanceolatis erectis.

autum-

C. Leaves flat, spear-shaped, upright.

MEADOW SAFFRON. Meadows in a rich soil. In the Meadows at Newark, abundantly; in Holme Meadows beyond Winthorpe, near the River; In the Meadows at Winkburn, the seat of Peter Pegge Burnell, Esquire. P. September.

3 POLYGYNIA.

ALISMA. Smith. 400. With. 361.

Cal. triphyllus. Petala tria. Capsula plures, aggregatæ, submonospermæ.

Calyx 3-leaved. Petals 3. Seeds many.

A. foliis ovatis acutis, capsulis obtuse trigonis. Planta-

A. Leaves egg-shaped, acute: fruit with 3 go. blunt corners.

GREATER WATER PLANTAIN. Ditches and watery places. In the Old Trent Ditches about Newark, by the Road side.

P. July.

A. foliis lineari-lanceolatis, capsulis pentago- ranunnis incurvis globoso-aggregatis. culoides.

A. Leaves strap-spear-shaped, on leaf-stalks: fruit globular, scurfy.

SMALL-WATER PLANTAIN. Wet turfy bogs. In old Gravel-pits near Kirklington Mill; on Edingley Moor; in a Ditch near a Cottage on Langford Moor? Trent side, between Clifton Hill and Nottingham. Deering.

P. August.

Classis VIII.

OCTANDRIA.

Stamina 8.

MONOGYNIA.

Stylus 1.

*Fl. completi.

1 Flowers complete.

- ACER. Pet: quinque. Cal. quinquefidus, inferus. Caps. monospermæ, alatæ.
- ACER. Male flowers many: Bloss. 5 petals. Cal. 5-cleft. Capsules 2 or 3; 1 seed in each; winged with a membrane at the end.
- EPILOBIUM. Pet. quatuor. Cal quadrifidus, superus. Caps. quidrilocularis. Sem. papposa.
- EPILOBIUM. Bloss. 4 petals. Cal with 4 divisions, superiour. Caps. 4-celled. Seeds downy.
- CHLORA. Cor. octopartita. Cal. octophyllus, inferus. Caps. unilocularis.
- CHLORA. Bloss. 8-cleft. Cal. 8 leaves, beneath. Caps. 1-celled: 2-valved: many-seeded.

- VACCINIUM: Cor. monopetala. Eal. quadridentatus, superus. Bacca.
- VACCINIUM. Bloss. 8-cleft. Cal. 4-toothed: superiour. Anthers awned in the middle. Fruit a Berry.
- ERICA. Cor. monopetala. Cal. tetraphyllus, inferus. Capsula:
- ERICA. Bloss. 4-cleft. Cal. 4 leaves; beneath. An-
 - * * Fl. incompleti.
 - 2 Flowers incomplete.
- DAPHNE. Cal. corollinus, quadrifidus, inferusa.

 Bacca monosperma.
- DAPHNE. Cal. 4-cleft; equal; resembling a blossom. Stamens inclosed. Berry pulpy.

TRIGYNIA.

Styli 3.

- POLYGONUM. Cal. quinquepartitus, corollinus, inferus. Cor. nulla. Sem. unicum, nudum.
- POLYGONUM. Cal. with 5 divisions; coloured. Bloss, none. Seed 1. naked.

TETRAGYNIA.

Styli 4.

- ADOXA. Cal. semiinferus. Cor. supera, quadrivel quinque-fida. Caps. calyce tecta.
- ADOXA. Bloss. superiour; 4 or 5-cleft. Cal. 2-leaves. Berry with 4 or 5 seeds.
- PARIS. Cal tetraphyllus. Pet. quatuor. Becca supera.
- PARIS. Bloss. 4 petals.; awl-shaped; Cal. 4-leaved. Berry 4 seeued.

WIII OCTANDRIA.

1 MONOGYNIA.

- EPILOBIUM. Smith. 409. With. 366.
- Cal. quadrifidus. Petalà quatuor. Capsula oblonga, infera. Semina papposa.
- Cal. 4-leaved, deciduous. Petals 4. Caps. beneath, 4-celled, very long. Seeds many, downy at the top.
- hirsu- E. foliis semiamplexicaulibus ovato-lanceotum. latis hirsutis, caule ramosissimo, radice repente.
 - E. Leaves egg-spear-shaped, hairy, half embracing the stem: Stem very much branched and hairy.

OCTANDRIA. MONOGYNIA. Epilobium. 119

- GREAT HAIRY WILLOW, HERB. CODLINGS AND CREAM. Moist hedges, ditches, banks of brooks, rivers, and lakes; common. Newark; Southwell.

 P. July.
- E. foliis sessilibus lanceolatis pubescentibus, parviflocaule subsimplici villoso, radice fibrosa. rum.
- E. Leaves spear-shaped, pubescent, nearly sitting; stem hairy, unbranched.
- SMALL-FLOWERED HOARY WILLOW-HERB. Watery places, and Banks of ditches and rivers; common. Southwell; Newark. P. July.
- E. foliis petiolatis ovatis dentatis, caule tereti, montastigmate quadripartito. num.
- E. Leaves opposite, egg-shaped, toothed; the upper ones alternate: stem cylindrical.
- BROAD SMOOTH-LEAVED WILLOW-HERB. In woods, hedge rows, shady lanes, and moist meadows. On Edingley Hill; Eperstone Park. P. July.
- E. foliis lanceolatis, denticulatis, caule tetra- tetragogono, stigmate indiviso. num.
- E: Leaves spear-shaped, finely toothed, the lowermost opposite: stem 4-cornered: sum-
- SQUARE-STALKED WILLOW-HERB. Marshes and sides of rivulets and ditches; frequent. P. July.
- E. foliis sessilibus lanceolatis subdenticulatis, paluscaule tereti, stigmate indiviso. tre.
- E. Leaves opposite spear-shaped, very entire: petals notched at the end: stem upright.
- Marshes, hogs, and sides of takes. On Edingley Moors, near Farnsfield; Oxton bottoms. P. July.

120 OCTANDRIA. MONOGYMA. Chlora.

CHLORA. Smith. 413. With. 369.

Cal. octophyllus. Cor. octopartita. Stigma quadrifidum. Capsula supera, unilocularis, bivalvis, polysperma.

Cal. 8 leaved. Bloss. 1 petal, 6 or 8 cleft. Caps. 1-celled, 2 valved, many-seeded.

perfoli- C. foliis perfoliatis.
-ata. C. Leaves perforated.

YELLOW CENTAURY In clayer or marly grounds; mountainous meadows and pastures, in a calcareous soil. Southwell: Winkhurn; Halam; Kirklington; sides of the hill near Oxton Toll-bar. A. July, Aug.

VACCINIUM. Smith. 414. With. 370.

Cor. monopetala. Stamina receptaculo inserta. Antheræ apice poris duobus. Bacca infera, quadrilocularis, polysperma.

Calyx supeaiour. Bloss. 1 peral. Filaments fixed to the receptacle Berry 4-celled, many-seeded; beneath; dimpled.

* Foliis decidnis.

1 Leaves annual, or deciduous.

Myrtil- V. pedunculis unifloris, foliis ovatis serratis dus. deciduis, caule angulato.

V. Fruit-stalks 1-flowered; leaves serrated, egg shaped; stem angular.

BILBERRY or BLEABERRY. In moistish woods, heaths and pastures; and tops of mountains; somewhat rare. On Mansfield Forest, particularly about Thompson's Grave.

S. April, May.

OCTANDRIA. MONOGYNIA, Erica: 181

* * Foliis sempervirentibus.

2 Leaves evergreen.

- V. follis ovatis integerrimis revolutis acutis, Oxycoccaulibus repentibus filiformibus glabris. cus.
- V. Fruit-stalks single, or in pairs: leaves egg-shaped, very entire, edges rolled back: stem thread-shaped, trailing, not hairy.
- RIES. Peaty bogs, and on Moors; not common.
 Oxton Bottoms.

 P. June,

ERICA. Smith. 417. With. 372.

- Cal. tetraphyllus. Cor. quadrifida. Stamina receptaculo inserta. Antheræ poris duobus. Capsula supera, quadrilo cularis, polysperma.
- Cal. 4-leaved. Bloss. 4-clefted. Filaments fixed to the receptacle. Anthers cloven and perforated at the top. Caps 4-celled, 4-valved, many seeded.

* Antheris aristatis.

1 Anthers with a tooth-serrated awns at the base

- E. Antheris aristatis inclusis, stylo exserto, vulgaris, corolla quadripartita calyce breviore, foliis oppositis calcaratis.
- E. Leaves arrow shaped.
- COMMON HEATH, or LING. Heaths and woods; common. S. June, July.
- E. Antheris aristatis, stylo incluso, corolla Tetraovata, foliis quaternis ciliatis, floribus capitatis.

122 OCTANDRIA. MONOGYNIA. Daphne:

- E. Leaves oblong, fringed, cottony underneath: flowers in umbels: cups fringed, and cottony.
- CROSS-LEAVED HEATH. Moist heaths; not uncommon Oxton Bottoms; Coddington Moors. S. July, August.
 - * * Antheris cristatis.
- 2 Anthers with 2 toothed-serrated awns at the base.
- cinerea. E. antheris cristatis. stylo subexserto, stigmate capitato, corolla ovata, foliis ternis.
 - E. Leaves spear-shaped, entire, smooth: flowers in umbels, egg-shaped: cups finely serrated: branches woolly.
 - FINE-LEAVED HEATH. Oxton Bottoms; Staple-ford Moor. S. July, Aug.
 - DAPHNE. Smith. 420. With. 376.
 - Cal. corollinus, quadrifidus, marcescens, stamina includens. Bacca monosperma.
 - Calyx generally none. Bloss. 1 petal, regular, 4-cleft, funnel-shaped Drupa like a berry, 1-celled, superiour.
- Laureo- D. racemis axillaribus subquinquesloris, fola. liis lanceolatis glabris.
 - D. Bunches of about 5 flowers, exillary: leaves spear-shaped, smooth.
 - SPURGE LAUREL. Woods and hedges; not common.

 Lu Kirklington, Winkburn, and Halloughton Woods.

 S. March.
 - ACER. Smith. 421. With. 368:

OCTANDRIA. TRIGYNIA. Polygonum. 123

Cal. quinquesidus. Petala 5. Capsulæ 2, vel 3, super, monospermæ, ala terminatæ.

Calyx 5-cleft. Bloss. 5 petals. Caps. 2 or 3; 1-seeded; ending in a leaf-like expansion.

Flores aliquot masculi.

Male flowers intermixed.

A, foliis quinqueglobis, inæqualite r serratis, Pseudoracemis pendulis. platanus.

A. Leaves 5-lobed, blunt, unequally serrated; flowers in compound, pendent bunches

GREATER MAPLE. SYCAMORE. Woods, hedges. Southwell; Newark. T. May, June.

A. foliis lobatis obtusis incisis, racemis erec-campestis. tre.

A. Leaves 5-lobed, very entire: the lower lobes notched: corymbus with 3 divisions, upright:

COMMON MAPLE. Hedges and thickets; common; S. May, June.

11. TRIGYNIA.

POLYGONUM. Smith. 423: With. 379.

Cal. quinquepartitus, coloratus, corolinus, persistens. Semen unicum, superum, angulatum, calyce tectum. Stamina et pistilla numero incerta.

Cal. none: Bloss. resembling a cup, with 5 divisions. Seed 1, angular; generally naked.

124 OCTANDRIA. TRIGYNIA. Polygonum.

* Digyna.

- . 1 Flowers with two pistils.
- amphibi- P. floribus pentandris semidigynis, spica ovaum. ta.
 - P. Style cloven: spike egg-shaped.
 - AMPHIBIOUS PERSICARIA. In cultivated ground, and in ditches. Newark. P. July, August.
 - Persica- P. floribus hexandris semi-digynis, spicis ovato-oblongis, erectis, pedunculis lævibus stipulis ciliatis. Curt.
 - P. Styles 2: spikes egg-oblong: leaves spearshaped: stipulæ fringed.
 - SPOTTED ARSMART. Ditches on the side of water, and sometimes in cornfields. Newark. A. July, Aug.
 - Hadro. P. floribus hexandris semidigynis, foliis lanpiper. ceolatis undulatis immaculatis, spicis filiformibus nutantibus, caule erecto.
 - P. Flowers with cloven pistils: stipulæ somewhat fringed: leaves spear-shaped.
 - BITING PERSICARIA. Watery places, on the sides of rivulets, lakes, and ditches; frequent. A. Sept.

* * Trigyna.

- 2 Flowers with 3 pistils.
- Bistor- P. caule simplicissimo monostachyo, foliis ta. ovatis undulatis in petiolum decurrentibus.
 - P. Leaves egg-shaped, extended at the base along the footstulks.
 - GREAT BISTORT, or SNAKEWEED. Moist meadows. In a Close between the Leen and Lenton Churchs yard. Deering. P. Jure.

OCTANDRIA. TETRAGYNIA. Paris. 125

- P. folibus axillaribus, foliis elliptico-lanceo- aviculatis margine scabris, stipularum nervis re- lare: motis, caule procumbente herbaceo.
- P. Flowers axillary: leaves spear-shaped: stem trailing.
- KNOT-GRASS. Road sides, paths, streets, and cornfields; common. A. April---Oct.
- P. foliis cordato-sagittatis, caule erectiuseu- Fagopylo inermi, seminum angulis æqualibus. rum.
- P. Leaves heart-arrow-shaped: stem nearly upright; without prickles: angles of the seeds equal
- BUCK-WHEAT: Cornfields. About Sir Richard Sutton's l'emple, on sherwood l'orest; Blidworth; Clumber. A. July, august.
- P. foliis cordato-sagittatis, caule volubili an- Convolgulato, laciniis calycinis obtuse carinatis. vulus.
- P. Leaves heart shaped: stem twining, angular: flowers blunted.
 - WEED. Cornfields, gardens, and hedges; common.

 A. June, July.

IV TETRAGYNIA.

PARIS. Smith. 431. With. 385.

Cal. tetraphyllus. Petala 4, angustiora. Bacca supera, quadrilocularis. Antheræ mediis filamentis adnatæ.

126 OCTANDRIA. TETRAGYNIA. Adoxa.

Calyx 4 leaved. Petals 4, narrower. Berry 4 celled.

quadri- PARIS.

folia. P. Stem-leaves generally: 4.

HERB-PARIS. TRUE LOVE. ONE BERRY. In woods and shady places. Thickets near Oxton Tollbar; and in the following Woods; Eperstone, i oundes, Colwick, Manzer-gorze. P. May.

ADOXA. Smith. 432. With 386.

Cal. bifidus vel trifidus, semiinterus. Cor. quadri-vel, quinque-fida, supera. Capsula quadri vel quinque locularis, calyce coalita.

Cal. cloven; beneath. Bloss. 4 or 5 cleft; superior. Berry 4 celled; united to the cup.

Moscha- ADOXA.

tellina.

TUBEROUS MOSCHATELL. Damp woods and shady places; not frequent. Oxfon Stews; shady Banks in the Marshes at Mansfield. Basford Scottum. Deen-ING.

P. April, May.

Classis IX.

ENNEANDRIA.

Stamina 9.

HEXAGYNIA.

Styli 6.

BUTOMUS. Cal. nullus. Pet. sex. Caps. sex, poly-permæ.

BUTOMUS. Involucr. simple; of 3 leaves. Bloss. 6 petals. Caps. 6. Seeds many.

IX ENNEANDRIA.

1 HEXAGYNIA.

BUTOMUS. Smith. 436. With. 393. Cal. nullus Petala 6. Capsulæ 6. superæ, polyspermæ.

Involucrum simple; of 3 leaves. Petals 6. Caps. 6 many seeded. Seeds fixed to the sides of the capsules.

128 ENNEANDRIA. HEXAGYNIA. Butomus.

umbel- BUTOMUS. latus.

WATER GLADIOLE. FLOWERING RUSH. Slow streams and nuddy ditches: not common. Kelham Bridge; and on the Banks of the Tient in other places; Banks of the River Devon, at Markham Bridge.

P. June, July.



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Classis X.

DECANDRIA.

Stamina 10.

DIGYNIA.

Styli 2.

- SCLERANTHUS: Cor. nulla. Cal. monophyllus. Sem. duo.
- SCLERANTHUS. Bloss. none. Calyx 5-cless: superiour. Seeds 2.
- CHRYSOSPLENIUM. Cor. nulla. Cal. corolatus. Caps. birostris, polysperma.
- CHRYSOSPLENIUM. Bloss. none. Calyx superiour. Caps. 2-celled: 2-beaked.
- SAXIFRAGA. Pet. quinque. Cal. quinquepartitus. Caps. birostris, polysperma.
- SAXIFRAGA. Bloss. 5 petals. Calyx with 5 divisions. Caps. 1-celled; 2-beaked.
- SAPONARIA. Pet. quinque. Cal. monophyllus, basi nudus. Caps. oblonga.
- SAPONARIA. Bloss 5 petals. Calyx tubular; naked at the base. Caps. 1-celled; oblong.

130 DECANDRIA. TRIGYNIA.

DIANTHUS, Pet. quinque. Cal. monophyllus, basi squamosus. Caps. oblonga.

DIANTHUS. Bloss. 5 petals. Calyx tubular; with scales at the base. Caps. 1-celled; oblong.

TRIGYNIA.

Styli 3.

ARENARIA. Caps. unilocularis. Pet. integra, patentia.

ARENARIA. Caps. 1-celled. Petals entire: ex-

STELLARIA. Caps. uniloc. Pet. bipartita, patentia.

STELLARIA. Caps. 1 celled. Petals deeply divided; expanding.

CUCUBALUS. Bacca uniloc. Pet. bisida, unguiculata.

CUCUBALUS. Caps. 3-celled. Petals cloven. Mouth naked.

SILENE. Caps. semitrilocularis. Pet. bisida, unguiculata. Cal. monophyllus.

SILENE. Caps. 1 to 3 cells. Petals (mostly) cloven. Mouth crowned:

PENTAGYNIA.

Styli 5.

- SEDUM. Caps. quinque, squama nectarifera ad basin. Cor. pentapetala.
- SEDUM. Caps. 5, adjoining the nectaries. Bloss. 5 petals.
- OXALIS. Caps. quinquelocularis, angulata. Sem. bina, arillata. Pet. basi connexa.
- OXALIS. Caps. 5 celled; angular. Bloss. petals connected at the base.
- LYCHNIS. Caps. quinque vel uni-locularis, polysperma. Cal. tubulosus, membranaceus.
- LYCHNIS. Caps. 1, 3, or 5-celled; oblong. Calyx oblong; membranaceous.
- AGROSTEMMA. Caps. unilocularis. Cal. tubulosus, coriaceous.
- AGROSTEMMA. Caps. 1-cell; oblong. Calyx tubular; membranaceous.
- CERASTIUM. Caps. unilocularis. Pet. bifida. Cal. pentaphyllus.
- CERASTIUM. Caps. 1-celled. Petals cloven. Calyx 5-leaved.
- SPERGULA Caps. unilocularis. Pet. integra. Cal. pentaphyllus.
- SPERGULA. Caps. 1-celled. Petals entire. Cally x 5-leaved.

132 DECANDRIA. DIGYNIA. Chrysosplenium.

x DECANDRIA.

1 DIGYNIA.

CHRYSOSPLENIUM. Smith. 447. With., 401.

Cal. quadrifidus seu quinquefidus, coloratus. Cor. nulla. Capsula birostris, unilocularis, semiinferus, semibivalvis, polysperma.

Cal. coloured, 4 or 5 cleft. Bloss. none. Caps: 2-beaked, 1-celled, many seeded, partly beneath; division of the valves extending but half-way down.

alterni- C. foliis alternis.

folium. C. Leaves alternate.

ALTERNATE-LEAVED GOLDEN SAXIFRAGE.
An wet shady woods, with C. oppositifolium, but less frequent. In a Ditch at the bottom of Eperstone Wood.
P. May.

oppositi- C. foliis oppositis. folium. C. Leaves opposite.

OPPOSITE-LEAVED GOLDEN SAXIFRAGE.
Moist shady places, sides of boggy rivulets and springs.
Pond-head, Oxton Bottoms; in a Ditch at the bottom
of Eperstone Wood, with C. alternifolium.

P. sprit, May.

SAXIFRAGA. Smith. 448. With. 402.

Cal. quinquefidus, persistens. Cor. pentapetala. Capsula birostris, unilocularis, polysperma, inter rostra dehiscens. Calyx 5-toothed. Bloss. 5 petals. Caps. beneath: 2-beaked, 2-celled, many-seeded, opening with a hole between the styles.

Foliis lobatis.

Leaves lobed: stem upright.

- S. foliis reniformibus lobatis, caule panicula-granuto, radice granulata, germine semiintero. lata.
- S. Stem leaves kidney-shaped, gashed: stem branched: root beaded.
- WHITE SAXIFRAGE. Dry meadows and pastures. Southwell; in the Quonce Close, in Newark; Averham Meadows; Edingley Hill; Kirklington.
 P. Ap il, May.
- S. foliis cuneiformibus trifidis quinquefidisve tridactyalternis: summis indivisis, caule panicula- lites. to, germine infero.
- S. Stem-leaves wedge-shaped, alternate, 3cleft: stem branched: leaves, in very dry situations, sometimes undivided.
- RUE-LEAVED SAXIFRAGE. On walls, roofs, and amongst rubbish. Southwell; Newark.

 A. April, May.
- SCLERANTHUS. Smith. 457. With. 407.
- Cal. monophyllus, inferus. Cor. nulla. Semina duo, calyce inclusa.
- Cal. 1-leaf. Bloss. none. Seed 1, inclosed in the cup.
- S. calycibus fructus patulis acutis, caulibus annuus. patentibus.
- S. Calyx, segments thornless: tapering to a point: open when the fruit is ripe.

134 DECANDRIA. DIGYNIA. Saponaria:

ANNUAL KNAWELL. Sandy ground Cornfields and in a nursery of mine between Newark and Barnby; Newark; Farnsfield; Blidworth. A. July.

SAPONARIA. Smith. 459. With. 408.

Cal. monophyllus, nudus. Petala quinque, unguiculata. Capsula supera, oblonga, sub-unilocularis.

Calyx 1 leaf, naked. Petals 5, with claws. Caps. oblong, of 1 cell.

officina- S. calycibus cylindricis, foliis elliptico-lanlis. ceolatis.

S. Calyx cylindrical: leaves egg-spear-shaped.

SOAPWORT. Meadows and bedges, but not common. In the hedges of a close adjoining the lake that leads from Mansfield to Sherwood Hall. Near the Mansfield bath. Deering.

P. August.

DIANTHUS. Smith. 460. With. 409.

Cal. cylindricus, monophyllus, basi squamatus. Petala 5. unguiculata, Capsula cylindrica, supera, unilocularis.

Cal. cylindrical. of 1 leaf, with from 2 to 8 scales at the base. Petals 5, with claws. Caps. cylindrical, 1-celled.

deltoD. floribus solitariis, squamis calycinis ovatoides.
lanceolatis acutis subbinis, foliis obtusiusculis, subpubescentibus, peralis crenatis.

D. Scales of the calyx 2: egg-spear-shaped, acute: petals toothed at the end.

MAIDEN PINK Sandy meadows, pastures and rocky places. Rocks in Nottingham Park, and about Gallows Hill; also in Lenton Hollows near Nottingham; Sandy sanks near Wollerton, by the side of the Derby road.

B. July---October.

II TRIGYNIA.

SILENE. Smith. 465. With. 413.

- Cal. monophyllus, ventricosus. Pctala 5, unguiculata. Capsula supera, semitrilocularis, apice dehiscens, polysperma.
- Calyx distended. Petals 5, with claws: crowned at the mouth. Caps. 1 or 3-celled.
- S. floribus paniculatis secundis cernuis, peta-nutans. lis bipartitis: laciniis linearibus, foliis lan-ceolatis pubescentibus.
- S. Petals cloven: calyx ribbed: flowers lateral, pointing one way, bowed downwards: panicle drooping.
- NOTTINGHAM CATCHFLY. On the walls and rocks of Notitingham Castle; Rocks at Spenton, a mile from Nottingham.

 P. June, July.
- C. floribus paniculatis cernuis, petalis semi- inflata. bifidis subnudis, calycibus glabris reticulato-venosis, caule erecto.
- C. Calyx nearly globular, smooth, with a network of veins: leaves egg-spear-shaped, glaucous, smooth.
- Cucubalus Behen. LINN. With.
- BLADDER-CAMPION, or CATCHFLY. Cornfields and meadows, in a limestone soil. Beacon Hill, near Newark; and about the Stone-pits. P. June---Aug.

136, DECANDRIA. TRIGYNIA. Stellaria.

- STELLARIA. Smith. 472. With. 417.
- Cal. pentaphyllus, patens. Petala 5, bipartita. Capsula supera, unilocularis, polysperma, apice sexdentata.
- Cal. 5 leaves, expanding. Petals 5, mostly divided down to the base. Caps. 1 cell. Seeds many.
- media. S. foliis ovatis, caulibus procumbentibus linea laterali pilosa alterna.
 - S. Petals deeply divided: leaves egg-heartshaped: stems with a hairy ridge on one side.
 - Alsine media. LINN.
 - COMMON CHICKWEED. In gardens and cultivated ground; very common.

 A. March, Oct.
- holostea. S. foliis lanceolatis serrulatis, petalis bisidis, calyce enervi.
 - S. Leaves spear-shaped, very finely serrated: petals cloven.
 - GREATER STICHWORT. Hedges and woods a very commen. P. April, May.
- grami. S. foliis lineari-lanceolatis integerrimis, paninea. cula terminali divaricata, calyce trinervi petalis subæquali.
 - S. Leaves strap-shaped, very entire: flowers in panieles.
 - LESSER STICHWORT. In meadows, pastures, and hedge banks; Newark; Southwell. A. May.

- S. foliis elliptico-lanceolatis integerrimis a- uligipice callosis, floribus subpaniculatis latera- nosa, libus, petalis calyce brevioribus.
- S. Leaves spear-shaped, very entire: stems trailing: panicles lateral.
- BOG STICHWORT. Sides of springs, rivulets, ditches, and boggy meadows. Edingley Moors; Farnsfield Carr; Oxton Bottoms; Marshes about Southwell and Halam; Coddington and Stapleford Moors. A. June.
- ARENARIA. Smith. 477. With. 421.
- Cal. pentaphyllus, patens. Petala 5, integra. Capsula supera, unilocularis, polysperma:
- Cal. 5 leaves, expanding. Petals 5, entire. Caps. 1-celled, many seeded.
- A. foliis ovatis acutis petiolatis nervosis, ca- trinerlycibus carina scabris obsolete trinervibus. via.
- A. Leaves egg-shaped, 3-fibred, pointd, on leaf-stalks.
- PLANTAIN-LEAVED CHICKWEED, or SAND-WORT. Woods, banks, and wet hedges. Halam Beck; Thurgarion Water. A. May, June.
- A. foliis ovatis subsessilibus scabris, calycibus serpyllihirsutis subquinquenervibus. folia:
- A Leaves somewhat egg-shaped, acute, sitting: blossoms shorter than the calyx.
- THYME-LEAVED SANDWORT. On roofs, walls, sandy and very dry places. Southwell; Newark.
 A. June. July.
- A. foliis linearibus mucronulatis, stipulis sca- rubra. riosis vaginantibus, seminibus compressis angulatis scabriusculis.

138 DECANDRIA. PENTAGYNIA. Sedum.

- A. Leaves thread-shaped, opposite, but half the length of the joints of the stem: stem prostrate: calyx as long as the capsule.
- PURPLE SANDWORT. Sandy lancs, meadows, and road sides. Gravel-walks at Southwell; Sherwood Forest; Mansfield; Coddington Moors.

A. July, August.

III PENTAGYNIA.

SEDUM. Smsth. 485. With, 426.

- Cal. quinquesidus. Cor. pentapetala. Squamæ nectariferæ 5, ad basin germinis. Capsulæ 5, superæ.
- Cal. 5-cleft. Bloss. none, or 5 petals. Nectariferous Scales 5, at the base of the germens. Caps. 5, distinct, like a legumen. Teretifolia.

Leaves roundish, nearly cylindrical.

- dasyphyl-S. foliis oppositis ovatis obtusis carnosis, lum. caule infirmo, panicula glutinosa.
 - S. Leaves opposite, egg-shaped, blunt, fleshy; stem weak; flowers scattered.
 - THICK-LEAVED STONE-CROP Walls and rocks; rare On Walls near Kirkby Church. P. June.
 - acre. S. foliis alternis subovatis carnosis gibbis adnato-sessilibus, cyma trifida foliosa.
 - S. Leaves nearly egg-shaped, growing to and sitting, butging, nearly upright, alternate: tuft with 3 divisions.

- stone-crop. Wall Pepper. On walls, roofs, rocks, dry banks, and pastures. Banks of the Hedges of the Close next Fidler's Bridge, in the Foot-road from Newark to Kelham; Quonce Close, at Newark. P. June.
- S. foliis subulatis sparsis basi solutis: inferi- reflexoribus recurvatis, floribus subcymosis. um.
- S. Leaves awl-shaped, scattered, loose at the base; the lower ones bowed back.
- YELLOW STONE-CROP. On walls, roofs, and rocks. On the Wall of the Palace at Southwell. P. July.
- OXALIS. Smith. 491. With. 429.
- Cal. pentaphyllus. Petala 5, unguibus connexa Capsula supera, quinquelocularis, angulis dehiscens, pentagona. Semina arillo elastico tecta.
- Calyx 5 leaves. Petals connected by the claws. Capsules 5-sided, opening at the corners.
- O. scapo unifloro, foliis ternatis obcordatis Acetopilosis, radice squamoso-articulata. sella.
- O. Stalk with 1 flower: leaves 3 together: leafits inversely heart-shaped, hairy.
- COMMON WOOD SORREL. In woods and shady places. Westhorpe Dumal, near Southwell; Thickets near Oxton Toll-bar; Eperstone, Colwick, Asply, and Broxtow Woods.

 P. April, May.
- AGROSTEMMA. Smith. 493. With. 431:
- Cal. monophyllus, coriaceus. Petala 5, unguiculata; limbo obtuso indiviso. Capsula supera, unilolocularis, ore quinque-dentata.
- Calyx 1-leaf, like leather. Petals 5, with claws; border blunt, undivided. Caps. 1-celled.

140 DECANDRIA. PENTAGYNIA. Lychnis.

- Githago. A. hirsuta, calyce corollam superante, petalis integris nudis.
 - A. Plant hairy: calyx as long as (or longer) than the blossom, petals entire, not crowned.
 - CORN COCKLE. In cornfields; frequent. Newark; Southwell.

 A. June, July.
 - LYCHNIS. Smith. 493. With. 431.
 - Cal. monophyllus, oblongus. Petala quinque, unguiculata, limbo sæpius diviso. Capusla supera, ore quinquedentata, 1-5 locularis.
 - Calyx 1 leaf, oblong, even. Petals 5, with claws, limbs often cloven. Caps. 1 to 5-celled.
 - Flos- L. petalis quadrifidis, fructu subrotundo uni-Cuculi. loculari.
 - L. Petals (3 or) 4-cleft: fruit roundish: of 1 cell.
 - RAGGED-ROBIN. MEADOW LYCHNIS. Moist meadows and pastures; very common. P. June.
- dioica. L. floribus dioicis, fructu uniloculari.
 - L. Stamens and pistils in distinct plants: capsules 1-celled.
 - RED CAMPION. Hedges, ditches, and moist woods; very frequent. P. May--Sept.
 - CERASTIUM. Smith. 496. With. 433.
 - Cal. pentaphyllus. Petala bifida. Capsula supera, apice dehiscens, ore decemdentata, unilocularis.
 - Calyx 5-leaved. Petals cloven. Caps. 1-celled, opening at the top.

DECANDRIA. PENTAGYNIA. Spergula. 141

- C hirsutum viscidum cæspitosum, foliis o- vulgavatis, petalis calyci æqualibus, floribus pe- tum. dunculo longioribus.
- C. Leaves egg-shaped: petals as long as the calyx: stems spreading.
- BROAD LEAVED MOUSE EAR. CHICKWEED.

 Mendows, pastures, on walls, sides of roads, gardens;
 Southwell; Newark.

 A. April, May.
- C. hirsutum viscidum diffusum, foliis lanceo- visco- lato-oblongis. sum.
 - C. Upright, woolly and clammy.
 - NARROW-LEAVED MOUSE-EAR CHICKWEED.
 Meadows, pastures, and ant-hills; not uncommon.
 P. May, Sept.
 - C. foliis lineari-lanceolatis obtusis basi cilia- arvense. tis, petolis calyce duplo longioribus.
 - C. Leaves strap-spear-shaped, bluntish, fringed at the base: blossoms larger than the calyx.
 - FIELD CHICK WEED. Cornfields, gravelly meadows, and pastures. Fornsfield. P. May==August.
- C. foliis cordatis sessilibus, pedunculis latera- aqualibus solitariis: fructiferis reflexis, capsula ticum, ovata ore quinquedentato.
- C. Leaves heart-shaped, sitting: flowers solitary: capsules pendent.
- WATER-CHICKWEED. Watery places, banks of rivers, mostly amongst bushes. Ditch banks near I idler's Bridge, in going to Kelham; Newark and Averham Meadows; Averham Lane; Ldingley.

 P. July.

SPERGULA. Smith: 502. With. 436.

142 DECANDRIA. PENTAGYNIA. Spergula.

- Cal. pentaphyllus. Petela 5, integra. Capsula supera, ovato, unilocularis, quinquevalvis.
- Cal. 5 leaves. Petals 5, entire. Caps. eggshaped, of 1 cell and 5 valves.
- S. foliis verticillatis, pedunculis fructiferis arvenreflexis, seminibus reniformibus. 525.
 - S. Leaves in whirls: flowers with more than 5 stamens: stems thick at the joints.
 - CORN SPURRY. Corh-fields and sandy places, especially where water has lain, and gravel walks; frequent. In fields and roads about Newark.

A. July---September.

- pentan- S. foliis verticillatis, floribus pentandris, sedra. minibus depressis alatis.
 - S. Leaves in whirls; flowers with 5 stamens: seeds depressed, winged.
 - LITTLE CORN SPURRY. Sandy places. Farnsfield.
- nodosa. S. foliis oppositis subulatis lævibus: superioribus fasciculatis, calvce enervi.
 - S. Leaves opposite, awl-shaped, smooth; stem. simple.
 - KNOTTED SPURRY. Marshy places, wet pastures and sides of rivers, lakes and marshes. On Edingley Moors; Farnsfield Carr; Oxton Bottoms. P. July, August.

Classis XI.

DODECANDRIA.

Stamina 12-20:

MONOGYNIA.

Stylus 1.

LYTHRUM Pet. sex. Cal. trifidus, superus. Caps. sexlocularis.

LYTHRUM. Bloss. 6 petals. Cal. 12-toothed, beneath. Caps. 1 or 2 celled.

DIGYNIA.

Styli 2.

AGRIMONIA. Pet. quinque, calyci inserta. Sem: in fundo calycis.

AGRIMONIA. Bloss. 5 petals. Cal. 5-cleft. Seeds

144 DODECANDRIA. TRIGYNIA.

TRIGYNIA.

Styli 3.

RESEDA. Pet. multifida Caps. unilocularis, hians.

RESEDA. Bloss. petals many-cleft. Cal. divided. Caps. 1-celled, gaping open.

EUPHORBIA. Nectaria peltata. Caps. tricocca. pedicellata.

EUPHORBIA. Bloss. petals fixed by the centre. Cal. bellying. Caps. 3 united dry berries.

DODECAGYNIA.

Styli 12.

SEMPERVIVUM. Pet. duodecim. Cal. duodecimpartitus. Caps. duodecim.

SEMPERVIVUM. Bloss. 12 petals. Cal. with 12 divisions. Capsules 12.

XI DODECANDRIA.

1 MONOGYNIA.

LYTHRUM. Smith. 509 With. 441.

Cal. duodecimfidus, inferus. Petala sex, calyci inserta. Capsula bilocularis, polysperma.

DODECANDRIA. DIGYNIA. Agrimonia: 145

- Cal. often with 12 or 16 teeth. Petals 5 or 6, fixed to the calyx. Capsule 1 or 2 celled, many seeded.
- L. foliis oppositis cordato-lanceolatis, flori- Salicabus spicatis dodecandris. ria.
- L. Leaves opposite or alternate, heart-spearshaped: flowers in spikes, 10 or 12 stamens in each.
- PURPLE LOOSESTRIFE. Marshes and banks of rivers. On the Banks of the River Trent; Ditches about Southwell; Newark; Edingley Moors.

 P. July, August.

- L. foliis alternis lineari-lanceolatis, floribus hyssopiaxillaribus solitariis hexandris. folium:
- L. Leaves alternate: flowers with 6 stamens.
- HYSSOP LEAVED LOOSESTRIFE, or GRASS-POLY. Watery places, and where water has stood during the winter; rare. In water where water stagnates below Wilford boat. Drening. I have unsuccessfully endeavoured to find this plant. A. August.

11 DIGYNIA.

AGRIMONIA. Smith. 511. With. 442.

Cal. quinquedentatus, calyculatus. Petala quinque, calyci inserta. Semina duo, in fundo calycis.

Calyx 5-toothed, surrounded by another. Petal's 5. Seeds 2, in a capsule at the bottom of the calyx, which becomes indurated.

146 DODECANDRIA. TRIGYNIA. Reseda.

- Eupato- A. foliis caulinis pinnatis: impari petiolato, ria. fructibus hispidis.
 - A. Stem-leaves winged: the odd leafit on a leafstalk: fruit hispid.
 - common agrimony. Borders of cornfields, shady places, and hedges. Hedge banks, and in lanes about Newark; in Mr. Pocklington's plantation facing the Winthorpe Road, near the Folly; Parks at Southwell.

 P. June, July.

III TRIGYNIA.

- RESEDA. Smith. 512. With. 445.
- Cal. monophyllus, partitus. Petala laciniata. Capsula supera, apice hians, unilocularis, polysperma.
- Calyx 1 leaf, divided. Petals jagged. Capsule 1-celled, many-seeded, opening at the top.
- Luteola. R. foliis lanceolatis integris planis, calyce quadrifido.
 - R. Leaves spear-shaped, entire, with a tooth on each side of the base: calyx 4-cleft.
 - DYER'S WEED. YELLOW WEED, or WEED.
 Mendows, pastures, walls, and barren unculivated spots; not uncommon. In the lane leading to Averham Meadow, from the Mill, beyond the Cotton Millat Neverk: the coad between Markham Bridge and Farndon from Newark.

 A. July.
 - lutea. R. foliis omnibus trifidis; inferioribus pinnatis, calyce sexfido.

DODECANDRIA TRIGYNIA. Euphorbia, 147

R. All the leaves 3-cleft; the lower winged.

WILD MIGNONETTE or BASE ROCKET. Cornfields, meadows, pastures, in a calcareous soil; not frequent. Bulwell Limekilns. A. or P. July, Aug.

EUPHORBIA. Smtth. 513. With. 446.

Cal. monophyllus, ventricosus, inferus. Nectaria 4, vel 5, calyci insidentia. Capsula pedicellata, tricocca.

Calyx 1-leaf, distended. Bloss. 4 or 5 petals, sutting on the calyx. Caps. 3, united.

* Umbella trifida.

1 Umbels with 3 spokes.

E. Umbella trifida: dichotoma, involucellis Peplus. ovatis, foliis integerrimis obovatis petiolatis.

E. Umbels with 3 spokes; spokes forked: involucellums egg-shaped: leaves very entire, inversely egg shaped, on leaf-stalks.

PETTY SPURGE. Rich cultivated soil: very frequent.

A. July, August.

E. umbella trifida: dichotoma, involucellis exigua. lanceolatis, foliis linearibus.

E. Umbel's with 3 spokes; spokes forked: involucellums spear-shaped: leaves strap-shaped.

DWARF SPURGE. Cornfields; frequent. Beaconfields, Newark; Coddington; Southwell; Farnsfield.

A. July.

** Umbella quinquefida.
2 Umbels with 5 spokes.

148 DODECAN. DODECAGYN. Sempervivum.

- helios- E. umbella quinquefida; trifida: dichotoma, copia. involucellis obovatis, foliis cuneiformibus serratis.
 - E. Umbel with 5 spokes; spokes with 3 divisions, and these forked: involucellums inversely egg-shaped: leaves wedge-shaped, serrated.
 - SUN-SPURGE or WART-WORT. In cultivated places, as gardens and cornfields; frequent.

 A. July, August.

IV DODECAGYNIA.

SEMPERVIVUM. Smith. 522. With. 452. Cal. inferus, duodecim-partitus. Petala 12. Capsulæ 12.

Calyx 12-cleft. Petals 1, 6, 12, to 24. Caps. 12, many-seeded, like a legumen.

tectorum. S. foliis ciliatis, propaginibus patentibus.

S. Leaves fringed: off-sets expanding.

COMMON HOUSELEEK. Roofs of old thatched buildings. Upten, and some House-tops in Southwell; on Pent-houses, in Newark. P. July.

Classis XII.

ICOSANDRIA.

Stamina plura, calyci inserta.

MONOGYNIA.

Stylus 1.

PRUNUS. Cal. inferus, quinquesidus. Pet. quinque. Drupa nucleo integro.

PRUNUS. Cal. beneath, 5-cleft. Bloss. 5 petals. Drupa with an entire nut.

PENTAGYNIA.

Styli 2 ad 5.

MESPILUS. Cal. superus, quinquesidus. Pet. quinque. Drupa nucibus 2 ad 5, dispermis.

MESPILUS. Cal. superiour, 5-cleft. Bloss. 5-pctals
Berry with 5 seeds.

PYRUS. Cal. superus, quinquefidus. Pet. quinque. Pomum loculamentis 2 ad 5, dispermis.

\$50 ICOSANDRIA. POLYGYNIA.

- PYRUS. Cal. superiour, 5 cleft. Bloss. 5 petals. Fruit a Pomum, with 5 cells and many seeds.
- SPIRÆA. Cal. inferus, quinquefidus. Pet. quinque. Caps. bivalves, polyspermæ.
- SPIRÆA. Cal. beneath, 5-cleft. Bloss. 5 petals. Capsules many, crowded together:

POLYGYNIA.

Styli plures.

- ROSA. Cal. quinquefidus, urceolatus, demum baccatus, polyspermus.
- ROSA. Cal. 5-cleft. Bloss. 5-petals. Cup like a berry, with many seeds.
- RUBUS. Cal. quinquesidus. Bacca supera, composita, acinis monospermis.
- RUBUS. Cal. 5-cleft. Bloss. 5 petals. Berry compound.
- TORMENTILLA. Cal. octofidus. Pet. quatuor. Sem. nuda, mutica.
- TORMENTILLA. Cal. 8-cleft. Bloss. 4 petals. Seeds 8, awnless.
- FRAGARIA. Cal. decemfidus. Sem. nuda, lævia, receptaculo deciduo, baccato, affixa.
- FRAGARIA. Cal. 10-cleft. Bloss. 5 petals. Seeds many, deciduous, situated upon a receptacle resembling a berry.

ICOSANDRIA. MONOGYNIA. Prunus. 151

- POTENTILLA. Cal. decemfidas. Sem. nuda, rugosa, mutica.
- POTENTILLA. Cal. 10-cleft. Bloss. 5 petals. Seeds many, awnless.
- GEUM. Cal. decemfidus. Sem. arista geniculata. Recept. columnare.
- GEUM. Cal. 10-oleft. Bloss. 5 petals. Seeds many, with a knee-jointed awn.
- COMARUM. Cal decemfidus. Sem. nuda, lævia, receptaculo ovato, spongioso, villoso, persistenti, affixa.
- COMARUM. Cal. 10-cleft. Bloss. 5 petals. Seeds many, permanent, upon a fleshy receptucle.

XII ICOSANDRIA.

1 MONOGYNIA.

PRUNUS. Smith. 526. With. 455.

- Cal. quinquefidus, inserus. Petala 5. Drupa nux suturis prominulis.
- Calyx 5 cleft, beueath. Petals 5. Drupa 1-celled, closed at the top. Nut with projecting seams:
- P. floribus racemosis; racemis pendulis, foli-Padus. is deciduis basi subtus biglandulosis.
- P. Flowers in bunches; leaves deciduous, with 2 glands at the base on the under side.
- BIRD-CHERRY. Woods and hedges. Norwood Park. S. May.

152 ICOSANDRIA. PENTAGYNIA. Mespilus.

- Cera- P. umbellis subsessilibus, foliis ovato-lanceosus. latis conduplicatis.
 - P. Umbels mostly on short fruit-stalks: leaves egg-spear-shaped, smooth, doubled together.

CHERRY-TREE. Woods and hedges. Halam T. May.

- insiti-P. pedunculis geminis, foliis lanceolato-ovatis tia. convolutis subtus villosis, ramis spinescentibus.
 - P. Fruit-stalks in pairs; leaves egg-shaped, slightly woolly, coiled; branches with thorns.

BULLACE-TREE. Hedges. Normanton. T. April.

- spinosa. P. pedunculis solitariis, foliis lanceolatis glabris, ramis spinosis.
 - P. Fruit-stalk solitary: leaves spear-shaped, smooth, branches thorny.
 - * BLACK THORN. SLOE TREE. Hedges: common. S. March, April.

II PENTAGYNIA.

Styli 2 ad 5.

MESPILUS. Smith. 529. With. 459.

Cal. quinquefidus. Petala 5. Drupa infera. Nuces 2 ad 5, dispermæ.

Cal. 5-cleft. Petals 5. Berry beneath, opening at the top, 1-celled, 1 or more seeded.

Oxya- M. spinosa, foliis obtusis subtrifidis serratis cantha. glabris, floribus subdiginis.

- M Leaves mostly 3-cleft: segments blunt ser-
- Cratægus Oxyacantha. With. 159.
- HAW-THORN. WHITE-THORN. MAY. Hedges; very common.
- PYRUS. Smith. 531. With. 462.
- Cal. quinquefidus. Petala 5. Pomum inferum, 2 ad 5-loculare. Semina bina.
- Cal. 5-clest. Petals 5. Pomum beneath, 5-celled, many-seeded.
- P. foliis simplicibus serratis, pedunculis commucorymbosis.
- P. Leaves serrated, smooth: flowers forming a corymbus.
- PEAR TREE. IRON PEAR TREE. Woods and hedges. T. April, May.
- P. foliis simplicibus serratis, umbellis sim- Malus. plicibus sessilibus.
- P. Leaves serrated: flowers in umbels, sitting.
- APPLE-TREE. CRAB-TREE. Woods and hedges; frequent. T. May.
- P. foliis pinnatis: foliolis æqualibus serratis aucupaglabriusculis, floribus corymbosis subtrigy- ria. nis.
- P. Leaves winged, smooth on both sides.
- Sorbus aucuparia. LINN. With.
- MOUNTAIN ASH. QUICKEN-TREE. Woods and hedges, in mountainous situations. Edingley Hill. T. May.
- SPIRÆA. Smith. 535. With. 463.

154 ICOSANDRIA. POLYGYNIA. Rosa.

- Cal. quinquefidus. Petala 5. Capsulæ superæ, bivalves, polyspermæ.
- Cal. 5-cleft. Petals 5. Caps. 4 or more, 2-cell-ed, 2-valved, many-seeded.
- Filipen. S. foliis interrupte pinnatis: soliolis unifordula. mibus serratis glabris, caule herbaceo, floribus cymosis polygynis.
 - S. Leaves interruptedly winged: leafits strapspear-shaped, irregularly serrated, very smooth: flowers in tufts.
 - COMMON DROPWORT. Meadows and pastures, in a calcareous soil. Newark and Averlian Meadows; Great Close, Oxton. P. July.
 - Ulma- S. foliis interrupte pinnatis subtus tomentosis, ria. impari majori lobato, floribus cymosis polygynis.
 - S. Leaves interruptedly winged: leafits eggshaped, doubly serrated, hoary underneath: flowers in tufts.
 - MEADOW-SWEET. Moist meadows and banks of ririvers. Ne vark and Averham Meadows; Greet Meadows, Southwell. P. June, July.

111 POLYGYNIA.

ROSA. Smith. 537. With. 464.

Cal. urceolatus, quinquefidus; carnosus, collo coarctatus. Petala 5. Semina plurima, hispida, calycis lateri interiori assixa.

Petals 5. Cal. urn shaped, 5 cleft, fleshy, contracted at the neck, so us to joim at length a coloured Berry of i cell, opening at the top. Seeds many, hispid, dispersed in the pulp.

* Fructibus subglobosis.

- 1 Germens more or less globular.
- R. fructibus globosis pedunculisque glabris, spinosisaculeis caulinis numerosissimis rectis setaceis, foliolis subrotundis glabris.
- R. Germens and fruit-stalks smooth: stem and leaf-stalks fully set with straight prickles: leasits circular smooth.
- BURNET ROSE Hedges, heaths, and sandy places. Newark; Southwell.
- R. fructibus globosis pedunculisque inermi- arvensis. bus, aculeis caulinis petiolorumque aduncis, floribus subcymos's
- R. Germens and fruit-stalks smooth: stem and leaf stalks prickly: flowers in tufis.
- WHITE DOG ROSE. Hedges and heaths; common. Southwell; wewark. S. July. .
- R. fructibus globosis pedunculisque hispidis, villosa. aculeis caulinis recriusculis, tonolis ellipticis utrinque tomentosis
- R. Germans and fruit-stalks hisped: stem with scattered prickles: leaf-stalks prickly: leaves cottony.
- APPLE ROSE. Moint in its bedres and shady places. On the righ and left hand before you reach wirklington Turnpike-road, in soing from Normanton; on the

156 ICOSANDRIA. POLYGYNIA. Rubus.

high cross hill, in the road from Southwell to Thurgarton; near the Bridge across Halam Beck, in the road from Southwell to Kirklington. S. June.

* * Fructibus ovatis.

2. Germans egg shaped.

- rubigi- R. fructibus ovatis pedunculisque hispidis, anosa. culeis caulinis aduncis. foliolis ellipticis subtus glanduloso rubiginosis.
 - R. Germens and fruit-stalks prickly at the base: prickles on the stem bent back: leaves rusted underneath.
 - SWEET-BRIAR. EGLANTINE. Henges and heaths; not common Heave beyond Averham flash, on the Upton road; also on waste round by the 5 mile-stone, before you arrive at Potters' hill, on the Lincoln road from Newark.

 S June, July.
- Jeis caulinis aduncis, foliolis ovatis acuminatis glaberrimis.
 - R. Germens and fruit-stalks smooth: stem and leaf-stalks prickly.
 - COMMON DOG-ROSE, WILD-BRIAR, or HEP-TREE. Hedges and woods. Southwell; Newark. S. June.

RUBUS. Smith. 541. With. 468.

- Cal. quinquesidus. Petatu 5. Bacca supera, composita acinis monospermis.
- Cal. 5-clest. Petals 5. Styles from the top of the germens. Drupa clustered, 1-celled, fixed to a conical receptacle, so as to resemble a berry.

1COSANDRIA. POLYGYNIA. Fragaria: 157

- R. foliis quinato-pinnatis ternatisque subtus idaus. tomentosis, petiolis canaliculatis, caule a-culeato.
- R. Leaves winged, with 5 or 3 leafits: steme prickly: leaf-stalk channelled.
- RASP-BERRY. Woods and hedges. Plantation of R. Pocklington, Esq. between Newark and Barnby. S May, June.
- R. foliis ternatis subtus pilosis: lateralibus casius. bilobis, caule aculeato prostrato glauco.
- R. Leaves 3 together, almost bare; lateral leaves 2-lobed: stem prickly, cylindrical: panicle few-flowered.
- DEW-BERRY. Woods and hedges. S. June, July.
- R. foliis subquinatis subtus pilosis: laterali- corylibus sessilibus, aculeis rectiusculis, calyci- folius. bus fructus inflexis.
- R. Leaves winged with 3 or 5 leafits, hairy underneath: luteral leaves sitting; prickles straight, calyxes of the fruit bent inwards.
- H (ZLE-LEAVED BRAMBLE. In woods and hedges; not unfrequent. S. July.
- R. foliis subquinatis subtus tomentosis: fo- frie an liolis petiolatis, aculeis aduncis, caule an cosus. gulato, calyce reflexo.
- R. Leaves winged, with 3 or 5 leafits: stem and leaf-stalks prickly: panicle oblong.
- COMMON BRAMBLE. Hedges and woods; common. S. June---Sept.
- FRAGARIA. Smith. 546. With. 471.

458 ICOSANDRIA. POLYGYNIA. Potentilla.

- Cal. decemfidus, inferus. Petala 5. Receptaculum seminum ovatum, baccatum, deciduum, Semina lævia.
- Calyx 10-cleft. Petals 5. Seeds naked, smooth, on a receptacle, which is egg shaped, coloured, deciduous, resembling a berry.
- vesca. F. flagellis reptantibus.
 - F. Leaves 3 together: runners creeping.
 - WOOD STRAWBERRY. Woods and shady places: frequent: Eperstone Woods; Halam and Edingley Hills. P. May, June.
- sterilis. F. caule decumbente, ramis floriferis laxis subbifloris.
 - F. Stem prostrate, without creeping runners.
 - BARREN STRAWBERRY. Barren pastures, heaths, and hedge banks. Sherwood Forest P. Marco, Apr.
 - POTENTILLA. Smith. 547. With. 472.
 - Cal. decemfidus, inferus. Petala 5. Semina subrotunda, nuda, sæpius rugosa, receptaculo parvo, exsucco, affixa.
 - Calvx 10-cleft. Petals 5. Seeds roundish, naked. wrinkled, fixed to a Receptacle, which is small, juiceless, spongy, tubercled.
 - * Foliis pinnatis.
 - 1 Leaves winged.
- anseri- P. foliis interrupte pinnaris serratis subtus sena. riceis, caule repente, pedunculis unifloris.
 - P -leaves winged, serrated: stem creeping: fruit stalks with 1 flower.
 - SILVER-VEED. WILD TANSEY. Sides of paths and roads, and in low pastures, especially where water has stood during the winter; common. P. June, July.

ICOSANDRIA: POLYGYNIA. Tormentilla. 159

* * Foliis digitatis.

- 2 Leaves with finger like divisions.
- P. soliis quinatis cuveisormibus incisis sub- argentus tomentosis, caule erecto. tea.
- P. Leasits 5 together, wedge-shaped, snipt, cottony under neath: stem upright.
- HIDARY CINQUEFOIL. Meadows and pastures, in a gravelly soil; not uncourmon. Farnsfield; Quonce-Hill close, at Newark; Larkdale at Northgham.

 13. June.
- P soliis quinatis obovatis serratis, caule reptans. repente, pedunculis unisloris.
- P. Leafus 5 together: stem creeping: fruitstulks 1 flowered.
- common CREEPING CINQUEFOIL. Meadows, pastures, and road-sides; very common. Southwell; Newark.

 P. June---August.
- TORMENTILLA. Smith. 552. With. 476.
- Cal. octofidus, inferns. Petala 4. Semina subrotunda, nuda, rugosa. Receptaculo par-vo, exsucco, affixa.
- Cal. 8-cleft. Petals 4. Seeds roundish, naked, fixed to a small juiceless receptacle.
- T. caule erectiusculo ramoso, foliis sessili- officinabus. lis.
- T. Stem somewhat ascending: leaves sitting.
- T. erecta.-LINN.
- COMMON TORMENTIL, or SEPTFOIL. Moors, barren pastures, and shady places; common. South-nell; Newark. P. June.

160 ICOSANDRIA. POLYGYNIA. Geuin.

- reptans. T. caule prostrato simplici, foliis pefiolatis.
 - T. Stem trailing; leaves on leaf-stalks.
 - TRAILING TORMENTIL. Woods and barren pastures; rare. On a common pasture in the parish of Eakring, called Manzers Gorze. P. June, July.
 - GEUM. Smith. 554. With. 477.
 - Cal. decemfidus, inferus. Petala 5. Seminum arista geniculata. Receptaculum columnare.
 - Cal. 10 cleft. Petals 5. Styles terminating. Seed with a jointed awn. Recept. pillar-like.
- urba- G. foliis ternatis, stipulis rotundatis incisis, num. floribus erectis, aristis uncinatis nudis.
 - G. flowers upright: fruit globular, woolly: awns hooked, bare: root-leaves lyre-shaped: stem-leaves in threes.
 - COMMON AVENS. HERB BENNET. Woods and hedges; common. Southwell; Newark.

 P. Muy---August.
- rivale. G. foliis radicalibus lyratis, stipulis ovatis acutis incisis, floribus nutantibus, aristis plumosis tortis.
 - G. Flowers nodding: fruit oblong: awns feathered, twisted: petals blunt, roundish wedge-shaped: leaves winged.
 - WATER-AVENS. Wet woods and shady moist places.

 In a lane leading from Radley, on the Oxton Road, to
 Miss Tottice's Wood. Rev. J. T. BECHUR. In the
 close by Asply House, and along the wood side.
 DEERING.

 P. June, July.
 - COMARUM. Smith. 556. With. 479.

ICOSANDRIA. POLYGYNIA. Ceum. 161

- Cal. decemfidus, inferus. Petala 5, calyce minora. Receptaculum seminum ovatum, spongiosum, villosum, persistens. Semina lævia.
- Cal. 10-cleft, permanent: segments alternately smaller. Petals 5. Seeds naked, smooth. Recept. globular; fleshy, woolly, permanent.

COMARUM.

palustre

- C. Leaves winged: petals smaller than the calyx.
- MARSH CINQUEFOIL. Muddy putrid marshes; bogs. Ponds at Oxton. P. June, July.



Classis XIII.

POLYANDRIA.

Stamina plura, receptaculo inserta.

MONOGYNIA.

Stylus 1.

* Tetrapetali.

1. Petals 4.

PAPAVER. Cal. diphyllus. Caps. unilocularis, poris sub stigmate dehiscens.

PAPAVER. Calyx 2-leaved. Capsule 1-celled; crowned.

CHELIDONIUM. Cal. diphyllus. Siliqua unilocularis. Sem. cristata.

CHELIDONIUM: Calyx 2-leaved. S. vess. a long Pod.

* * Pentapetali.

2 Petals 5.

CISTUS. Caps. trivalvis, apice dehiscens. Cal. pentaphyllus; foliolis duobus minoribus.

CISTUS. Caps. nearly globular. Cal. 5-leaved; 2 leafits smaller.

TILIA. Caps. quinquevalvis, basi dehiscens, coriacea. Cal. quinquepartitus, deciduus.

POLYANDRIA. PENTAGYNIA. 163

TILIA. Caps. 5-celled; like leather. Seed 1. Cal. deciduous.

* * * Polypetali.

3 Petals many.

NYMPHÆA! Bacca multilocularis, corticosa. Cal. petalis major.

NYMPHÆA. Berry many-ceiled: outer-coat like bark. Cal. large.

PENTAGYNIA.

Styli 5.

AQUILEGIA. Cal. nullus. Pet. quinque. Nect. quinque, inferne cornuta.

AQUILEGIA. Cal. none. Bloss. 5 petals. Nectaries 5: horned in the lower part.

HEXAGYNIA.

Styli 6.

STRATIOTES. Spatha dyphylla. Perianthium superum, trifidum. Pet tria. Bacca sexlocularis.

STRATIOTES. Cal. with 3 divisions. Bloss. 3 petals. Berry 6-celled; in a sheath.

164 POLYANDRIA. POLYGYNIA.

POLYGYNIA.

Styli plures.

- THALICTRUM. Cal. nullus. Pet. 4-5. Seme ecaudata:
- THALICTRUM, Cal. none. Bloss. 4 or 5 petals. Seeds many; awnless: naked.
- CLEMATIS. Cal. nullus. Pet. 4-6. Sem. caudata. Recept. capitatum.
- CLEMATIS. Cal. none. Bloss. 4 petals. Seeds many; awned.
- ANEMONE. Cal. nullus. Pet. 5-9. Sem. pluri-ma.
- ANEMONE. Cal. none. Bloss. 6 petals. Seeds. many.
- CALTHA. Cal. nullus. Pet. quinque. Nect: nulla.
- CALTHA. Cal. none. Bloss. 5 petals. Caps. many. Nectaries nane.
- RANUNCULUS. Cal. pentaphyllus. Pet. quinque, unguibus, nectariferis. Sem. plurima nuda.
- RANUNCULUS. Cal. 5 (or 3) leaves. Bloss. 5 (or 8) petals. Seeds many. Petals with a nectary in the claw.

XIII POLYANDRIA.

1 MONOGYNIA.

CHELIDONIUM. Smith. 562. With. 483.

Cal. diphyllus. Petala 4. Siliqua supera, bivalvis, unilocularis, linearis. Semina plurima, cristata.

Bloss. 4 petals. Cal. 2 leaves. Pod. strapshaped. Receptacle of the seeds (generally) lattice-like.

CHELIDONIUM.

majus

C. Fruit-stalks forming umbels.

OELANDINE, Hedges and rough shady places, New-ark; Walls of Southwell Church-yard. P. May, June.

PAPAVER. Smith. 565. With. 485.

Cal. diphyllus. Petala 4. Stigma radiatum. Capsula supera, sub stigmate persistente poris dehiscens.

Bloss. 4 petals. Cal. 2 leaves. Summit targetshaped, radiated, scolloped. Caps, (often) many-celled, opening with holes underneath the permanent summit.

* Capsulis hispidis.

1 Capsules rough with stiff bristly hairs.

P. capsulis clavatis hispidis, caule folioso Argemultifloro. mone:

P. Capsules club-shaped, bristly; stem leafy, many-flowered,

#56 POLYANDRIA. MONOGYNIA. Nymphæm

- LONG ROUGH-HEADED POPPY. Comfields; common. Southwell. A. June, July.
 - * * Capsulis glabris.
 2 Capsules smooth.
- dubium. P. cadsulis glabris oblongis, caule multisloro piloso, setis pedunculosum adpressis toliis bipinnatisidis.
 - P. Capsules oblong, smooth; stem many-flowered: fruit-stalks with bristles laid to: leaves wing-cleft, snipt:
 - LONG SMOOTH-HEADED POPPY.. Cornfields: chiefly in a light sandy soil. Blidworth. A. June, July.
- Rhaas. P. capsulis glabris subglobosis, caule multifloro hispido: pilis omnibus patentibus, foliis pinnatifides incisis...
 - P. Capsules smooth, unn-shaped: stem hairy, many-flowered: leaves wing-cleft, jagged.
 - corn, and borders of fields; common Southwell; Newark.

 A. June, July.
 - NYMPHÆA. Smith. 569. With. 483.
 - Cal. 4—5-phyllus. Cor. polypetala. Stigmaradiatum, sessile. Bacca supera, multilocularis, polysperma.
 - Bloss. many petals. Cal. 4 or 5 leaves. Summit round, flat, sitting. Berry superiour, lopped, many-celled.
- taphyllo petalis majore, stigmate integer rimo.

POLYANDRIA. MONOGYNIA. Tilia. 167

- N. Leaves heart-shaped, very entire: calyx 5-leaved, much larger than the petals.
- YELLOW WAFER-LILY. Slow Rivers, pools, and direbes. River Devon, Markkam Bridge, Newark; Langtord Flee; Ditches in Collugham Meadows; Besthorperblacs pool; and in the Saire Ditch, between Balderton and Claypole. P. July.
- N. foliis cordatis integerrimis. calyce tetraphyllo, staminibus germini insertis, stigmate lobato.
- N. Leaves heart-shaped, very entire: caly & 4-clift.
 - WHITE WATER-LILLY. Slow Rivers, ponds, and deep ditches. Langford Fleet, near Newark, with No latea, plentifully; ponds in the meadows between Collingham and the river; Cheyney Pool, near Nortingham. Diesing.

 P. July.
- TILIA. Smith. 571. With. 490.
- Cal. quinquepartitus. Petala 5. Capsula supera, coriacia, obovota, angulata, quinquelocularis, quinquevalvis, basi dehiscens.
- Bloss. 5 petals. 'Cal. with 5 divisions Seed vessel leather-live, globutar, 5 celled, 5-valved, opening at the base.
- T. floribus nectario destitutis, foliis cordatis, euroramificationibus venarum subtus villosis. paa.
- T. Flowers without a nectary: berry 4-celled.

 LIME-TREE. LINDEN-TREE. Woods and hedges.
 T. July.
- CISTUS. Smith. 572. With. 490.
- Cal. pentaphvilus: foliolis inæqualibus. Petala 5. Capsula supera, angulata, trivalvis, polysperma:

alba:

168 POLYANDRIA. PENTAGYNIA. Aquilegia.

Bloss. 5 petals. Cal. 5 leaves; 2 of them smaller. Caps. from 1 to 10-celled; from 3 to 10 valved.

Stipulati suffructicosi.

Somewhat shrub like; with stipula.

- Helian- C. suffruticosus procumbens stipulatus, fothemum. his eliiptico-oblongis subtus tomentoso- incanis.
 - C. Trailing: stipulæ spear-shaped: leaves oblong, edges rolled back, somewhat hurry.
 - COMMON DWARF CISTUS. Mendows and pastures, in a calcureous soil. Sides of Oxton Hill, near the foll-bar.

 8. July, August.

III PENTAGYNIA.

AQUILEGIA. Smith. 578. With. 495.

Cal. nullus. Petala 5. Nectaria 5, corniculata, inter petala. Capsulæ 5. distinctæ.

- Calyx none. Petals 5. Nectaries 5, horn-shaped, alternating with the petals. Caps. 5, distinct.
- ris. caule foliisque glabris.
 - A. Nectaries bowed inwards, nearly equal to the petals: leafits all on leaf-stalks, lobes aistant, roundish, bluntish.
 - COMMON COLUMBINE. Woods and thickets; not common. Wigley's Wood, at Broxtow. Asply Wood, near Nottingham. Deering. P. July.

POLYANDRIA. HEXAGYNIA. Stratiotes: 169

IV HEXAGYNIA.

STRATIOTES. Smith. 579. With. 495.

Spatha diphylla. Perianthium superum, trifidum. Petala 3. Bacca sexlocularis.

Sheath 2 leaves. Cup 3-cleft, or 3 leaves. Petals 3. Berry 6-celled; 6-corned: be-neath.

- S. foliis ensiformi-triangulis aculeato-serratis. alvides.
- S. Leaves triangular-sword-shaped: edge fringed with prickles.

WATER ALOE. WATER-SOLDIER. Slow streams, and fen ditches; rare. Claypits; Stow Park, near Newton. Dr. Buck.

P. July.

v POLYGYNIA.

ANEMONE. Smith. 580. With. 498.

Cal. nullus. Petala 5-9 Semina plura.

Cal. generally none. Petals 5 to 10. Capsules many, with awns or tails formed by the style.

A. scapo involucrato unifloro, involucro tri-nemorephyllo petiolato foliaceo, seminibus ecau-sa. datis. foliolis incisis.

A. Seeds pointed: leasits snipt: stem with 1 flower.

Q

170 POLYANDRIA. POLYGYNIA. Clematis.

- WOOD ANEMONE. Woods, hedges, and hollow-ways; not uncommon. Thickets near Oxton Foll-bar; Eperstone; Oxton; Colwick, and Broxtow Woods. P. April.
- CLEMATIS. Smith. 583. With. 500.
- Cal. nullus. Pet. 4-6. Semina caudata. Re-cept., capitatum.
- Cal. none. Fetals 4, rarely 5 or 6. Styles permanent. Capsules many, with tails. Receptacle a knob.
- Vitalba. C. foliis pinnatis; foliolis cordatis: petiolis scandentibus.
 - C. Leaves winged: leafits heart-shaped, climb-ing.
 - TRAVELLER'S JOY. Hedges and shady places, in a calcareous soil. Here and there in hedges, but rarely. DERING. S. July.
 - THALICIRUM. Smith. 583. With. 500.
 - Cal. nullus. Petala 4-5. Semina ecaudata.
 - Cal. none. Petals 4 or 5. Capsules many, rather beaked.
- flavum. T. foliis bipinnatis: foliolis trifidis, caule sulcato, panicula ramosissima coarctata, floribus erectis.
 - T. Stem furrowed, leafy: leafits acute, 3-cleft: panicle much branched, upright, compact: flowers upright.
 - COMMON MEADOW-RUE. Moist meadows, pastures, and banks of rivers. Newark and Averham Meadows; ditch banks beyond Newark Bridge on the Kelham Road.

 P. July.

POLYANDRIA. POLYGYNIA. Ranunculus. 171

RANUNCULUS. Smith. 587. With 503.

Cal. pentaphyllus. Petala 5-8, intra ungues poro mellifero. Semina nuda.

Cal. deciduous, 5 (or 3) leaved. Petals 5, (rarely 2, 3 or 8) with a nectariferous scale or pore within the claw. Styles permanent. Seeds incrusted, upright.

* Foliis simplicibus:

1 Leaves undivided.

R. foliis ovato-lanceolatis obtusiusculis peti- Flamolatis, caule declinato. mula.

R. Leaves egg-spear-shaped, on leaf-stalks: stem declining.

LESSUR SPEAR-WORT. Bogs, boggy meadows, and sides of rivulets; frequent. Quonce Close, New- ark. P. June -- Sept.

- B. foliis lanceolatia acuminatis, catele erecto Lingua.
- R. Leaves long spear-shaped: stem upright.

GREAT SPEAR-WORT. Wet pastures and sides of lakes; rare. Basford Scottum, and on a Moor between Bridgeford and Gamston, copiously. Detring. Although there does not appear to be any ground for imagining that Deering was mistaken, I have not been able to find this Plant in either of these situations. It is, however, not impossible, that it may still exist there. I have walked nearly 80 miles, to ascertain this single habitat, others may be more fortunate.

P. July.

R. foliis cordatis angulatis petiolatis, petalis Ficaria. numerosis.

172 POLYANDRIA. POLYGYN. Ranunculus.

- R. Leaves heart-shaped, angular, on leaf-stalks: stem 1-flowered: flowers with 8 petals: callyx with 3 leaves.
- PILEWORT. LESSER CELANDINE. Meadows, pastures, hedge banks; common. P. April.

 *** Foliis dissectis et divisis:
- 2 Leaves dissected and divided, not uniform.
- mus. crenatis; caulinis digitatis linearibus, caule multifloro, calyce colorato.
 - R. Root-leaves kidney-shaped, scolloped, cut: stem-leaves fingered, strap-shaped, stem many-flowered.
 - WOOD CROWFOOT. GOLDILOCKS. Woods, groves, and hedges. Southwell; Eperstone. P. April---May.
- scelera. R. foliis inferioribus palmatus; summis diius. gitatis, fructibus oblongis.
 - R. Lower-leaves hand-shaped, the upper fingered: fruit oblong.
 - WATER-CROWFOOT. CELERY-LEAVED CROW-FOOT. Shallow waters and ditches. Newark; Southwell; Nottingham. A. June---Aug.
- bulbosus. R. calycibus retroflexis, pedunculis sulcatis, caule erecto multifloro, foliis compositis, radice bulbosa.
 - R: Root bulbous: calyx reflected: fruit-stalks furrowed: stem upright, many-flowered: leaves compound.
 - BULBOUS CROWFOOT. BUTTER-CUPS. Meadows and pastures; very common. Newark; Southwell. P. May.

POLYANDRIA. POLYGYN. Ranunculus. 173

- R. calycibus retroflexis acuminatis, caule erec- hirsuto multifloro hirsuto, foliis ternatis, radice tus.
- R. Root fibrous: stem hairy: calvx pimpled, hairy, taper, pointed, at length reflected.
- PALE HAIPY CROWFOOT. Moist clayey places, where water has stood during the winter; and borders of corafields. Newark; Southwell; Nottingham.

 A. June---Oc'ober.
- R. calycibus patulis, pedunculis sulcatis, sar- repens. mentis repentibus, foliis compositis.
- R. Calyx expanding: fruit-stalks furrowed: suckers creeping: leaves compound.
- CREEPING-CROWFOOT. Meadows, pastures, on rubbish, under bedges, and in gar cos; common. Newark; Southwell.

 P. June---August.
- R. calycibus patulis, pedunculis teretibus, fo- acris. liis tripartito-multifidis: summis linearibus.
- R. Calyx expanding: fruit-stalks cylindrical: teaves with 3 armsions, and many clefts, the uppermost strap shaped.
- UPRIOHE MIADOW CROWFOOT Meadows and pastures; very common Newark; Southwell. P. June.
- R. semin'bu aculeati, folis prifido-decom- arvenpositis: laciniis linearibus. sis.
- R. Seeds prickly: upper leaves doubly compound, strap-shaped.
- CORY CROSFOOT. Comfields common. New-ark; Southwell.
- R. solis renisormi-subre tur dis trilobis quin-hederaquelobisque integerimis lævibus, caule re-ceus. pente.

174 POLYANDRIA. POLYGYNIA. Caltha.

- R. Leaves roundish, 3-lobed, very entire: stem creeping.
- IVY CROWFOOT. On the mud of slow shallow streams, watery places, and ditches. Edingley Moors.

 P. May---August.
- aquati- R. foliis submersis capillaceis: emersis sublis, peltatis.
 - R. Leaves under water hair-like: those above with nearly central leaf-stalks.
 - WATER CROWFOOT. Ponds and ditches. Hollows by the road between Newark-bridge and Muskham bridge, plentifully.

 P. May--June.
 - CALTHA. Smith. 599. With. 511:
 - Cal. nullus. Petala 5. Nectaria nulla. Capsulæ pliorimæ, polyspermæ.
 - Cal. none. Petals 5. Nectaries none. Caps. several; many-seeded.

palustris. CALTHA.

MARSH-MARIGOLD. Moist Meadows. Banks of rivers and pools common. Quonce Close, Newark; Southwell. P. May.

Classis XIV.

DIDYNAMIA.

Stamina 4, quorum 2 longiora.

GYMNOSPERMIA.

Semina nuda:

* Calyces subquinquefidi.

1 Cups mostly 5-cleft.

LEONURUS. Antheræ punctis osseis adspersæ.

LEONURUS. Anthers sprinkled with hard particles.

GLECHOMA. Anth. per paria cruciatæ.

GLECHOMA. Anthers in pairs; each pair forming a cross.

MENTHA. Filamența distantia, recta. Cor. subæ-qualis.

MENTHA. Filaments distant: straight. Bloss. nearly regular.

TEUCRIUM. Cor. labium superius ultra basin bibartitum,

TEUCRIUM. Bloss, without any upper lip: upper segment of the petal divided.

176 DIDYNAMIA. GYMNOSPERMIA.

- A JUGA. Cor. lab. superius minimum.
- AJUGA. Bliss. upper lip shorter than the stamens.
- BEFONICA. Cor. lab., superius planum, adscendens, tubo cylindrico. Stam. longitudine faucis.
- BETONICA. Bloss. upper lip flat; ascending; Tube cylindrical. Stam. as long as the mouth of the tube.
- LAMIUM. Cor. faux utrinque dentata.
- LAMIUM. Bloss. with a bristle-shaped tooth on each side the lower lip, (on each side the mouth.)
- GALEOPSIS Cor. lab inferius supra bidentatum.
- GALEOPSIS. Bloss with 2 teeth upon the lower lip.
- GALEOBDOLON. Cor. lab. inferius trifidum, lacuniis acutis.
- CALEOBDOLON. Bloss. upper lip entire, vaultéd; lower lip 3 cleft; segments broad, acute. Anthers fleshy on the back.
- STACHYS. Cor. lab. inferius lateribus reflexum. Stam. deflorata ad latera reflexa.
- STACHYS Bloss lateral segments of the lowerlip reflected. Stamens after flowering turned to the sides.
- NEPETA. Cor. lab. inferius crenatum; faux margine reflexo.
- NEPETA. Bloss. lower lip scolloped. Month with the edge reflected.
- BALL(): A. Cal. decemstriatus. Cor. lab. superius fornicatum.

BALLOTA. Cup with 10 scores. Bloss. upper lip vaulted

MARRUBIUM. Cal. decemstriatus. Cor. lab. superius rectum, bifidum.

MARRUBIUM. Cup with 10 scores. Bloss. upper lip flat and straight.

VERBENA. Cal. unico dente truncato. Cor. subæqualis, curva.

VERBENA. Bloss. nearly regular; upper segment of the cup shorter.

* * Calyces bilabiati.

2 Cups 2-lipped.

SCUTELLARIA. Cal. fructiferus operculatus.

SCUTELLARIA. Cup. after flowering, closed with a cover, and resembling a helmet.

THYMUS. Cal. fauce villis clausus.

THYMUS. Cup. (mouth small;) closed with soft hairs.

PRUNELLA. Filamenta omnia apice bifurca.

PRUNELLA. Filaments all forked at the end,

ORIGANUM. Strobilus calyces coligens.

ORIGANUM. Cups forming a tiled cone:

CLINOPODIUM. Involucrum multisetum calyces colligens.

CLINOPODIUM. Cups, inclosed in an involucrum.

178 DIDYNAMIA. ANGIOSPERMIA.

ANGIOSPERMIA.

Semina pericarpio inclusa.

* Calyces quadrifidi.

1 Cups 4-cleft.

LATHRÆA. Caps. unilocularis. Glandula sub germine.

LATHRÆA. Caps. 1-celled. Bloss. gaping: a gland under the base of the germen.

BARTSIA. Cops. bilocularis. Sem. angulata.

BARTSIA. Caps. 2-celled. Bloss. gaping. Seeds angular.

RHINANTHUS. Caps. bilocularis. Sem. compresso plana imbricata.

RHINANTHUS Caps. 2 celled. Calyx compressed. Bloss. gaping.

MELAMPYRUM. Caps. bilocularis. Sem. bina, gibba, lævigata.

MELAMPYRUM. Caps. 2-celled. Bloss. gaping. Seeds 2; bulging.

EUPHRASIA. Caps. bilocularis. Sem. striata. Anth. spinosæ.

EUPHRASIA. Caps. 2-celled. Bloss. gaping: lower Anthers with thorns.

* * Calyces quinquefidi.

2 Cups 5-clest.

- LIMOSELLA. Caps. semibilocularis. Cor. campanulata, subæqualis.
- LIMOSELLA. Caps. 1-celled, many seeded. Bloss. bell shaped; regular.
- SCROPHULARIA. Caps. bilocularis. Cor. resupinata. Lab. segmento intermedio interno.
- SCROPHULARIA. Caps. 2-celled. Bloss. facing upwards; the lip with a middle segment more inward.
- DIGITALIS. Caps. bilocularis. Cor. companulata, subtus ventricosa.
- DIGITALIS. Caps 2-celled. Bloss. (tubular) bell-shaped; bellying on the under side. Stain. declining.
- ANTIRRHINUM. Caps. bilocularis. Cor. personata, subtus nectario prominente.
- ANTIRRHINUM. Caps. 2-celled. Bloss. gaping; with a projecting nectary beneath.
- PEDICULARIS. Caps. bilocularis. Sem. mucronata. Cor. personata; galea compressa.
- PEDICULARIS. Caps. 2-celled. Bloss. gaping. Seeds coated.
 - * * * Calyces subdiphylli: 3 Cups cloven.
- OROBANCHE. Cal. foliola lateralia, lobata. Caps. unilocularis.
- orobanche. Caps. 1 celled. Bloss. nearly equal; 4-cleft: a gland under the base of the germen.

XIV DIDYNAMIA.

1. GYMNOSPERMIA.

Calyces subregulares.

AJUGA. Smith. 604. With. 516.

Corollæ labium superius minimum, emarginatum. Stamina labio superiore longiora.

Bloss. upper lip very small. Stamens longer than the upper lip.

reptans. A. glabra, caule solitario, stolonibus rep-

A. Plant smooth; with creeping suckers: leaves egg-shaped, scolloped.

COMMON BUGLE. Moist meadows, pastures, and woods; frequent. P. May.

TEUCRIUM. Smith. 606. With. 518.

Corolla labium superius (nullum) ultra basin bipartitum divaricaium. Stamina exserta.

Bloss. upper lip upright, deeply divided, even below the base: stamens in the division.

Scorodo- T. foliis cordatis serratis petiolatis, racemis nia. lateralibus secundis, caule erecto.

T. Leaves heart-shaped, serrated, on leafstalks: flowers in lateral bunches, pointing one way: stem upright.

WOOD GERMANDE?. WOOD SAGE. Woods, heaths, thickets, and ditch banks; not uncommon. On the hanging rocks over the Leen, in Nottingham Park; banks between Retford and Worksop. P. July.

DIDYNAMIA. GYMNOSPER. Verbena. 181

- NEPETA. Smith. 608. With. 519.
- Corollæ labium inferius lacinula intermedia crenata: faux margine reflexo. Stamina approximata.
- Bloss. middle segment of the lower lip scolloped; mouth the edges reflected: stamens approaching.
- N. floribus spicatis, verticillis subpedicella-cataria: tis, foliis petiolatis cordatis dentato-serratis.
- N. Flowers on spikes: whirls on short fruitstalks: leaves on leaf-stalks, heart-shaped, tooth-serrated.
- NEP, or CAT-MINT. Hedges in a calcareous soil; not frequent. On Banks between Newark and Hawton; Bath at Mansfield; In a Hedge on the right-hand-side of the Road leading from Cuckney to Warsop.

 P. July.

VERBENA. Smith. 608. With. 520.

- Cor. infundibuliformis, subæqualis, curva. Calycis unico dente truncato. Stamina 2 sive 4. tenuissime arillata. Semina 2 sive 4.
- Bloss. funnel-shaped; segments nearly equal. Calyx one of its teeth lopped. Seeds 2 or 4, naked.
- V. tetandra, spicis filiformibus paniculatis, fo- officiliis multifido-laciniatis, caule subsolitario. nalis.
- V. Spikes thread-shaped, panicled: leaves with many jagged clifts: stem solitary.
- COMMON VERVAIN. Waste places, store walls, and sides of roads Southwell; Halam; Edingley; Kirklington; Rudby near Ollerton; Maplebeck Churchyard.

 P. July.

R

182 DIDYNAMIA. GYMNOSPER. Mentha.

- MENTHA. Smith. 609. With. 521.
- Cor. subæqualis, quadrifida; lacinia latiore emarginata. Cal. quinquefidus. Stam. erecta, distantia.
- Bloss. nearly equal; 4-cleft; the broader segments notched at the end. Stam. upright, distant.
- sylves- M. spicis villosis subcontinuis, foliis dentatotris. serratis subtus præcipue tomentosis, bracteis subulatis.
 - M. Spikes oblong: leaves oblong, servated, cottony, sitting: stamens longer than the blossom. Link. sometimes not longer. Huds.
 - HORSE MINT. Marshy and watery places; somewhat rare. Greet Bridge, Southwell; Trent Dirches, near Newark Bridge; Mansfield Bath; Thurgarton Hill. P. August, Sept.
- folia. spicis subhirsutis interruptis, foliis ellipfolia. ticis obtusis rugosis crenatis subtus villosis, bracteis lanceolatis.
 - M. Spikes oblong: leaves roundish, scolloped, sitting.
 - ROUND-LEAVED MINT. Watery places; rare.

 Near the Bath at Mansfield. Debring. Martyn.

 P. Augusl, Sept.
- piperita. M spicis obtusis interne interruptis, foliis petiolatis subovatis glabriusculis, calyce basi glaberriono.
 - M, Leaves egg-shaped, on leaf-stalks: stamens shorter than the blos som.
 - PEPPER-MINT. Watery places. By the side of the Greet, near the Water-mill, at Southwell. P. Aug. Sept.

- M. floribus capitatis verticillatisve, foliis pe- hirsuta. tiolatis ovatis, calyce undique hirsuto, pe-dicellis retrorsum hispidis.
- M. Leaves egg-shaped, serrated, nearly sitting, downy: stamens longer than the blossom.
- HAIRY MINT. Sides of rivers, and wet places.
 P. August, Sept.
- M fioribus verticillatis, foliis ovatis, caule gentilis. ramosissimo patulo, calycibus basi pedicellisque glabris.
- M. Leaves egg-shaped, acute, serrated: stamens shorter than the blossom.
- BUSHY RED MINT. Watery places, and sides of rivulets. Newark; Southwell; Mansfield. P. Aug.
- M floribus verticillatis, foliis ovatis, caule arvenramosissimo, calycibus campanulatis un- sis. dique hirsutis pilis horizontalibus.
- M. Leaves egg-shaped, acute, serrated: stamens as long as the blossoms.
- CORN MINT. Watery places, and moist cornfiel's.

 Newark; Southwell.

 P. June---Sept.
- M. floribus verticillatis, foliis ovatis, caule Pulegiprostrato, pedicellis calycibusque undique um. tomentosis: dentibus ciliatis.
- M. Leaves egg-shaped, blunt, somewhat scolloped: stems roundish, creeping: stamens longer than the bloss.
- PENNY ROYAL. Moist heaths and pastures; not common. Kirklington Water Mill. Wellow Green, and Gunthorpe. DEERING. P. September.

184 DIDYNAMIA. GYMNOSPER. Glechoma.

GLECHOMA. Smith. 625. With. 525. Cal. quinquefidus. Antheræ per paria in crucem conniventes.

Cal. 5-cleft. Anthers in pairs, each pair forming a cross.

hedera- G. foliis reniformibus crenatis.

cea. G. Leaves kidney-shaped, scolloped.

GROUND-IVY. GILL. ALE-HOOF. Groves, hedges, and shady places; very ccm on. P. April, May.

LAMIUM. Smith. 626. With. 526.

Cal. quinquesidus, dentibus setaceis patentibus. Cor. labium superius integrum, fornicatum: inferius bilobum; faux inflata, utrinque margine dentata.

Bloss. upper lip entire, vaulted; lower lip inversely heart-shaped: mouth with a bristleshaped tooth on each side.

album. L. foliis cordatis acuminatis petiolatis, verticillis vigintifloris.

L. Leaves heart-shaped, tapering to a point, serrated, on leaf-stalks: flowers about 20 in a whirl.

WHITE ARCHANGEL. WHITE DEAD NET-TLE. On rubbish, cornfields, and ditch binks; common. P. May, June.

purpu- L. foliis cordatis obtusis petiolatis; superireum. oribus confertis.

1. Leaves heart-shaped, blunt, on leaf-stalks.

RED ARCHANGEL. Rubbish, cornfields, and kitchen gardens; common. A. May---Sept.

DIDYNAMIA. GYMNOSPER. Galeopsis. 185

- L. foliis floralibus sessilibus amplexicaulibus amplexobtusis. icaule.
- L. Floral-leaves sitting, embracing the stem, blunt.
- HENBIT. ARCHANGEL. GREAT HENBIT.
 Cornfields, and cultivated grounds; not uncommon.
 Southwell; Newark.

 A. Feb.---June.
- GALEOPSIS. Smith. 628. With. 528.
- Cal. quinquefidus, aristatus. Cor. labium superius crenatum, fornicatum; inferius supra bidentatum.
- Bloss. upper lip vaulted, somewhat scolloped; lower lip 3-cleft: mouth with a concave taper-pointed tooth on each side.
- G. internodiis caulinis æqualibus, foliis ova-villosa. to-lanceolatis serratis villosis, corollæ galea crenato-incisa.
- G. All the whirls remote: calyxes tubular, very hairy; teeth spear-shaped, taper-pointed, short, straight.
- G. grandislo a. With.
- very common Cornfields at Farnsfield, Bilderton, Barnby, and Coddington. A. July, August.
- G. caule hispido: internodiis superne incras- Tetrasatis, corolla calyce duplo longiore, galea hit. rectiuscula.
- G. Upper whirls nearly contiguous: calyx bellying; teeth very long, bristle-shaped, equal: stem swollen below the joints.
- of cornfields, and amongst rubbish; common. New-ark; Southwell.

 A. July, August.

186 DIDYNAM. GYMNOSPER. Galeobdo lon.

- versi- G. caule hispido: internodiis superne incrascolor. satis, corolla calyce triplo longiore: galea ventricosa.
 - G. Upper whirls nearly contiguous: calyx tubutar, shorter teeth strap-shaped, unequal, 3 of them larger.
 - G. cannabina. With.
 - LARGE FLOWERED HEMP-NETTLE. BEE-NETTLE. Corn-fields, turnip-fields, and fallow grounds; not very common. Farnsfield, Barnby, Balderton, and Coddington. A. July, August.
 - GALEOBDOLON. Smith. 631. With. 530.
 - Cal. quinquefidus, inæqualis, aristatus. Cor. labium superius integerrimum, fornicatum; inferius trifidum, laciniis omnibus acutis.
 - Bloss. upper lipentire, vaulted; lower lip without teeth, 3-cleft; segments broad, pointed. Anthers fleshy on the back.

luteum. GALEOBDOLON.

YELLOW DEAD NETTLE. WEAZLE-SNOUT. Woods, shady places, and moist hedges. Westhorpe Dumble, near Sou hwell; and in the woods, at Flintham, Eperstone, Ossington, and Colwick. P. May.

BETONICA. Smith. 632. With. 531.

- Cal. quinquefidus, aristatus. Cor. labium superius adscendens, planiusculum, inferius trifidum: tubus cylindricus.
- Calyx awned. Bloss. upper lip upright, flat; tube cylindrical.
- officina- B. spica interrupta, corollarum lacinia lalis. bii intermedia emarginata.

- B. Spike interrupted: blossom upper lip entire, lower lip the middle segment notched: callyxes smoothish.
- WOOD BUTONY. Woods and shady groves. In Mr. Pocklington's plantations, between Newark and Minthorpe; Newark and Averhant Meadows; and amongst gorse in the lane between Balderton and Coddington. P. July.--August.
- STACHYS Smith. 632. With. 531.
- Cal. quinquefidus, aristatus. Cor. labium superius fornicatum: inferius lateribus reflexum, lacinia intermedia majore, emarginata. Stamina deflorata versus latera reflexa.
- Bloss. Upper lip vaulted; lower lip bent back at the sides, the larger middle segment notched: stamens after shedding the pollen bent to the sides.
- S. verticillis sexfloris, foliis cordatis petiola- sylvatis tica:
- S. Six flowers in a whirl: leaves heart-shaped, on leaf-stalks.
 - HEDGE WOUNDWORT. Hedges and woods; common. Newark. P. July.--August.
- S. verticillis sexfloris foliis lineari-lanceola- palustis semiamplexicaulibus. tris.
- S. About six flowers in a whirl: leaves strapspear-shaped, half embracing the stem, sitting.
- MARSH WOUNDWORT. Watery places and banks of rivers. Banks of the Greet Southwell; dilehes near the Meadows at Newark; ditches on the road between Ratcliff and Nottingham.

 P. August.

188 DIDYNAMIA. GYMNNSPER. Ballota:

- arven-S. verticillis sexfloris, caule debili, foliis corsis. datis obtusis crenatis subpilosis.
 - S. Six flowers in a whirl: leaves blunt; almost naked: blossoms as long as the calyx: stem feeble.
 - CORN WOUNDWORT. In cornfields; not uncommon. About Coddington; near Farnsfield Brick-Kilns.

 A. July.---August.
 - BALLOTA. Smith. 635. With. 533.
 - Cal. hypocrateriformis, decemstriatus, quinquedentatus. Cor. labium superius crenatum, concavum.
 - Calyx salver-shaped, with 5 teeth and 10 scores. Bloss. upper lip concave, scolloped.
- nigra. B: foliis ovațis indivisis serratis, calycibus superne dilatatis subtruncatis: dentibus patentibus.
 - B. Leaves heart-shaped, undivided, serrated: calyx teeth tapering to a point.
 - BLACK or STINKING HOREHOUND. On vubbish and in hedges; very common. P. July .-- Aug.
 - MARRUBIUM. Smith. 636. With. 533.
 - Cal. hypocrateriformis, rigidus, decemstriasus. Cor. labium superius bifidum, lineare, rectum.
 - Calyx salver-shaped, rigid, with 10 scores. Bloss. upper lip cloven, strap-shaped, straight.
- vulgare. M. dentibus calycinis decem setaceis uncina-

M. Teeth of the calyx bristle-shaped, hooked.

WHITE HOREHOUND. Road sides, and amongst rubbish. In the road leading from Blidworth to Kirk-by; also about Bulwell Stonc-pi's: on the right hand side of the road from Worksop to Ollerton. P. July.

LEONURUS. Smith 637. With. 534.

Cal. pentagonus, quinquedentatus. Cor. labium superius concavum, villosum, integrum. Antheræ punctis nitidis adspersæ.

Anthers sprinkled with shining particles.

L. foliis superioribus lanceolatis trilobis inte- Cardigrisve. aca.

L. Stem-leaves spear-shaped, 3-lobed.

MOTHER WORT. Hedges and on rubbish and dungbills. On rubbish by the road side a little beyond. Mansfield, on the Chesterfield road; hedge bottoms of a garden belonging to Mr. Brown, at the 3 mile house on the road from Newark to Lincoln. P. July.--Aug.

* * Calyces bilabiati.

CLINOPODIUM. Smith 638. With. 534.

Cal. bilabiatus. Involucrum multisetum verticillo subjectum.

Stamens crooked. Anthers aphroaching. Involucr. bristle-shaped, beneath the whirls.

C. verticillis hispidis, bracteis setaceis, pedi-vulgare. cellis ramosis, foliis obsolete serratis.

C. Heads roundish, hispid: floral-leaves bristle-shaped.

WILD BASIL. Meadows, hedges, and dry pastures, especially in a calcureous soil. Road between Southwell and Oxton; lawe between Oxton and Calverton, and in the road between Redford and Worksop, pleasifully.

P. August.

190 DIDYNAMIA GYMNOSPER. Origanum.

- ORIGANUM. Smith. 638. With. 535.
- Strobilus tetragonus, spicatus, calyces colligens:
- Flowers forming a 4 sided spike-like cone.
- vulgare. O. spicis subrotundis paniculatis conglomeratis glabris, involucris ovatis calyce longioribus.
 - O. Spikes roundish, panicled, clustered: floral leaves egg-shaped, longer than the calyx.
 - COMMON MARJORAM. This ets and hedges, in a calcareous soil, On banks in a bine leading to Cliffnook closes; on the Balderton road from Newark; in fields about Coddington. P. July .-- August.
 - THYMUS. Smith. 639. With. 536.
 - Cal. bilabiatus, faux villis clausa. Cor. labium superius planum, emarginatum.
 - Calyx 2-lipped; mouth closed with soft hairs.
- T. floribus capitatis, caulibus decumbenti-Serpylbus, foliis planis ovatis obtusis basi ciliatis. lum.
 - T. Flowers in heads: stems creeping: leaves flat, blunt, fringed at the base.
 - WILD THYME. MOTHER of THYME. Heathsand mountainous places. Nottingham Park; Sherwood'Forest.
 - T. Serpyllum citratum. LEMON THYME.
 - Leaves with the scent of Lemon peel. About Sir Richaid Syttom's Temple on Sherwood Forest; in a close of the owerlies, Normanton; Edingley Moors.
 - P. July, August.
- Acinos. T. verticillis sexfloris; pedunculis simplicibus, caule adscendente ramoso, foliis acutis serratis, calyce gibboso.

DIDYNAMIA. GYMNOSPER. Scutellaria. 191

- T. Flower in whirls; 1 upon each fruit stalk: stems upright, somewhat branched: leaves acute, serrated.
- BASIL THYME Dry hills on chalk and gravel. About Sir R. Sutton's temple on the forest at Blidworth; sandy closes about Berr, hill and Mansfield; Bulwell Limekilns.
- T. verticillis pedunculatis multifloris dicho- Calamintomis, foliis subserratis, villis calycinis tha. inclusis.
- T. Fruit stalks axillary, forked, as long as the leaves.
- Melissa Calmintha. LINN. With.
 - COMMON CALAMINE. Sides of roads and cornfields. Lanes at North Collingham; on a lane between North and South Muskham, leading from the Turnpike.

 P. July.—August.
- T. verticillis pedunculatis multifloris dichoto- Nepeta. mis folio longioribus, foliis serratis, villis calycinis prominentibus.
- T. Fruit-stalks axillary, forked, longer than the leaves: stem ascending, hairy.
- Melissa Nepeta. LINN. With.
- LESSER CALAMINT. Sides of roads and corn-fields, and hedge banks. Vields about Coddington.
- SCUTELLARIA. Smith. 645. With. 540.
- Cal ore subintegro: post florescentiam clauso operculato.
- Calyx rim nearly entire, closed after flowering: covered with a lid.
- S. foliis cordato-lanceolatis crenatis rugosis, galerifloribus axillaribus. culato.

192 DIDYNAMIA. GYMNOSPER. Prunella.

- S Leaves heart-spear-shaped, scolloped: flowers axillary.
- COMMON SKULL-CAP. Banks of rivers and edges of ponds. Ditch banks by the side of the road from Newark to Kelham; Edingley Moor. P. July, Aug.
- PRUNELLA. Smith. 646 With. 540.
- Filamenta bisurca, altero apice antherifera.

 Stigma bisidum.
- Filaments forked, one of the divisions bearing the anthers Summit cloven.
- vulgaris. P. foliis omnibus ovato-oblongis petiolatis.
 - P. All the leaves egg-oblong, servated, on leafstalks; upper lip of the calyx lopped, 3toothed.
 - SILP HEAL. Meadows and pastures; not common. Southwell; Newark; Nottingham. P. July, Aug.

ANGIOSPERMIA.

1 Calyces quadrifidi.

BARTSIA. Smith 647. With. 541.

Cal. quadrilobus, subcoloratus. Cor. ringens, fauce clausa: labium superius concavum, longius; inferius æqualiter trifidum, reflexum. Capsula ovata compressa, bilocularis. Semina plurima, angulata.

Calyx 2-lobed, notched at the end, the points (sometimes) coloured. Bloss. (sometimes) less coloured than the calyx; the upper lip longer. Capsule 2 celled.

DIDYNAMIA. GYMNOSPER. Rhinanthus. 193

- B. foliis lanceolatis serratis: superioribus al- Odontiternis, floribus racemosis secundis, antheris glabris.
- B! Upper leaves alternate. spear-shaped, serrated: flowers in bunches, pointing one way.
- Euphrasia Odontitis. LINN. With.
- RED BASTIA. Cornfields and pastures; common. Newark; Southwell. A. July, August.
- RHINANTHUS. Smith. 649. With. 542.
- Cal. ventricosus, quadridentatus. Cor. galea compressa. Caps. bilocularis, obtusa, compressa. Semina imbricata, compresso-plana.
- Calvx 4-cleft, inflated. Capsule 2-celled, blunt, compressed. Seeds few.
- R. corollæ labio superiore fornicato, calyce Cristaglabro, foliis lanceolatis serratis. galli.
- R. Upper lip of the blossom compressed, and shorter: calyx smooth.
- YELLOW RATTLE. Meadows, pastures, and woods; common. Southwell; Newark. A. June.
- EUPHRASIA. Smith. 650. With. 543.
- Cal. cylindricus, quadridentatus, æqualis. Cor. labium superius bisidum; interius trilobum, laciniis bisidis. Antheræ spinis inæqualibus aristatæ. Caps. ovato-oblonga. Semina striata.
- Cal. 4-cleft, cylindrical. Anthers, the lower ones with one thorny lobe at the base. Caps. 2-celled, egg-oblong. Seeds few leaning backwards.

194 DIDYNAM. GYMNOSPER. Melampyrum.

- offici- E. foliis ovatis lineatis argute dentatis.
 nalis. E. Leaves egg-shaped, streaked, sharply tooth
 - ed.
 - EYE-BRIGHT. Heaths, dry barren meadows and pastures. Newark; Southwell. A. July---Sept.
 - MELAMPYRUM. Smith. 651. With. 544.
 - Cal. tubulosus, quadrifidus. Cor. labium superius compressum, margine replicato. Caps. bilocularis, obliqua, hinc dehiscens. Semina bina, gibba.
 - Cal. 4-cleft. Bloss. upper lip compressed, edges bent back. Caps. 2-celled, compressed, stanting, opening on one side. Seeds solutary, bulging.
- pratense. M. floribus secundis lateralibus: conjugationibus remotis, corollis clausis labio porrecto.
 - M. Flowers lateral, pointing one way; leaves in distant pairs: blossoms closed.
 - COMMON YELLOW COW-WHEAT. Woods and thickets. Eperstone Thickets, near Oxton.

 A. July, August.
 - LATHRÆA. Smith. 654. With. 547.
 - Cal. quadrifidus. Glandula depressa ad basin suturæ germinis. Caps. unilocularis, receptaculis fungosis lateralibus. Semina globosa.
 - Calux with 4 or 5 divisions. Germen with a depressed gland at the ouse of the seam. Caps. 1-celled: receptacles tateral, sponge like.

DIDYNAMIA. ANGIOSPER. Pedicularis. 195

- L. caule simplicissimo, floribus pendulis la- Squabio inferiore trifido. maria.
- L. Stem undivided: flowers pendent; lower lip 3-cleft.
- GREATER TOOTH-WORT. In shady places, but very rare. At the roots of 2 large elin trees, in the garden of William Sherbrooke, Fsq. at Oxton; and on the roofs of the hazels near the Stews at Oxton. Mrs. Sherbrooke. P. April.

* * 2 Calyces quinquefidi.

PEDICULARIS. Smith. 655. With. 548.

- Cal. subquinquefidus, ventricosus Cor. galea emarginata, compressa. Caps. bilocularis, mucronata, obliqua. Semina pauca, angulata, mucronata.
- Calvx 5-cleft. Caps. 2-celled. sharp-pointed, slanting. Seeds few, coated.
- P. caule solitario ramoso, calyce ovato piloso paluscostato bilobo inæqualiter inciso. tris.
- P. Stem branched: calvx crested with callous dots: lip of the blossom slanting.
- MARSH LOUSEWORT. Marshes, direbes, moist meadows, and pastures. Oxton Bottoms; Edingley Moors.
- P. caulibus pluribus simplicibus patentibus, sylvaticalyce oblongo angulato glabro inæqualiter ca. quinquelobo inciso.
- P. Stem branched: calyx oblong, angular, smooth: lip of the blossom heart-shaped.
- PASTURE LOUSEWORT. Wet pastures and heaths. Coddington, Stapleford, and Langford Moors; Parks at Southwell; Oxton; Papplewick. P. June, July.

196 DIDYNAM. ANGIOSPER. Antirrhinum.

ANTIRRHINUM. Smith. 656. With. 549.

Cal. quinquepartitus. Corollæ basis deorsum prominens, necrarifera. Caps. bilocularis.

Calyx with 5 divisions. Bloss. either bulging at the base; or ending in a spur. Caps. 2-celled, many seeded, upening at the top, and the divisions bent back.

* Foliis dilatatis, caulibus laxis.

1 Leaves angular.

Cymba- A. foliis cordatis quinquelobis alternis glalaria. bris, caulibus procumbentibus.

A. Leaves heart-shaped, 5-lobed, alternate: stems trailing.

IVY-LEAVED SNAP-DRAGON Old walls. Walls of the Churchyard at southwell; Kirkby Church P May--- November.

spurium. A. foliis ovatis alternis, caulibus procumben-

A. Leaves egg shaped, woolly: stem trailing.

ROUND LEAVED FLUELLIN. Cornfields; not frequent. Chifton Hill. Deering. A. July---Sept.

* * Foliis angustioribus, caulibus erectis.

2 Leaves alternate.

Linaria. A. foliis lanceolato-linearibus confertis, caule erecto spicato, calycibus glabris calcari brevioribus.

A. Leaves spear-strap shaped, crowded: stem upright: spikes terminating, sitting: flowers tiled.

DIDYNAM. ANGIOSPER. Scrophularia. 197

- dows, pastures, and hedges; common. Southwell; Newark; Mansfield. P. June, July.
- A. foliis plerisque alternis lanceolatis obtàsis minus; pubescentibus, caule ramosissimo patulo calycibus calcari longioribus.
- A. Leaves mostly alternate, spear-shaped, blunt: stem very much branched, spreading.
- LEAST SNAP-DRAGON. Gravelly cornfields; not common. Fields by the side of Warsop Wood.

 A. June---August.
 - * * * Corollis ecaudatis.
 - 3. Bloss. gaping: without a spur.
- A. corollis ecaudatis, floribus spicatis, caly-majus, cibus obtusis villosis.
- A. Blossoms without a spur: flowers in spikes: eups rounded.
- GREAT SNAP-DRAGON. Old walls. On the Walls of the Friars; Newark. P. July, August.
- SCROPHULARIA. Smith. 662. With. 553:
- Cal. quinquesidus. Cor. subglobosa, resupinata. Caps. bilocularis.
- Cal. 5-cleft. Bloss. with 5 divisions; tube globular; the lower segment reflected. Caps. 2-celled, partition double.
- S. foliis cordatis acutis basi trinervibus, caule nodosa. acutangulo.
- S. Leaves oblong-heart-shaped, 3-fibred at the base, corners of the stem acute.

198 DIDYNAMIA. ANGIOSPER. Digitalis.

KNOTTY-ROOTED FIGWORT. Woods and moist hedges. Halam and Edingley Hills; Thickers near Oxton Toll-bar; Eperstone and Colwick Woods.

P. July.

- aquatica. A. foliis cordatis petiolatis decurrentibus obtusis, caule alato.
 - S. Leaves heart shaped, blunt, on leaf-stalks, running down the stem: corners of the stem edged with a membrane: bunches terminating.
 - WATER FIGWORT. WATER BETONY. Watery places, and banks of rivers; very common. Newark; Southwell. P. July.
 - DIGITALIS. Smith. 665. With. 555.
 - Cal. quinquepartitus. Cor. campanulata, quinquefida, ventricosa. Caps. ovata, bilocularis, polysperma.
 - Cal. with 5 divisions. Bloss. bell-shaped, 5-cleft, bellying. Caps. egg-shaped, 2-celled, many-seeded.
 - purpu- D. foliolis calycinis ovatis acutis, corollis obrea. tusis: labio superiore integro, foliis pubescentibus.
 - D. Segments of the calyx egg-shaped, acute: blossom blunt, upper lip nearly entire.
 - PURPLE FOXGLOVE. Hedge banks, and sides of hills in dry gravelly or sandy soil; not uncommon. Sherwood Forest.

 B. June, July.
 - LIMOSELLA. Smith. 668. With. 557.
 - Cal. quinquefidus. Cor. quinquefia, subzqualis. Stam. perparia approximata. Caps. ovato, unilocularis, bivalvis, polysperma.

DIDYNAMIA. ANGIOSPER. Orobanche. 199

Cal. 5-cleft. Bloss. 5-cleft, equal. Stamens approaching, in pairs. Germen 2-celled. Caps. often 1-celled, 2-valved, many-seeded.

LIMOSELLA:

aquatica.

MUDWORT. Muddy and gravelly places, where water has stagnated during the winter; not very common. Gravel-pits, near Kirklington Mill. P. July, Aug.

* * * Calyces subdiphylli.

OROBANCHE. Smith. 668. With 557.

Cal. foliolis duobus, lobatis, lateralibus. Cor. ringens Caps. unilocularis, bivalvis, polysperma. Glandula sub basi germinis.

Cal. somewhat cloven. Bloss. gaping Germen resting on a gland. Caps. 1-celled, 2-valved, many seeded.

* Bracteis solitariis.

- O. caule simplici, corolla inflata: labii laci- majoroniis acutis æqualibus, staminibus glabris, stylo pubescente.
- O. Stem unbranched, pubescent: stamens the length of the blossom.
- GREATER BROOM-RAPE. Shady places at the roots of trees; somewhat rare. Two plants among broom, about half-way between Retford and Worksop, in a Plantation of Earl Manvers, at Thoresby; Manzer Gorze, left-hand side leading into Dillenah Wood, near Winkburn.

 P. June, July.

Classis XV.

TETRADYNAMIA.

Stamina 6, quorum 4 longiora.

SILICULOSA.

Pericarpium subrotundum.

Pouch not notched at the end.

- DRABA. Silicula integra, valvis planiusculis, dissepimento parallelis.
- DRABA. Pouch with nearly flat valves. Style
- COCHLEARIA. Silic. subintegra, turgida, rugosa, bivalvis, polysperma.
- COCHLEARIA. Pouch heart-shaped. Valves blunt; bulging.
- CORONOPUS. Silic. subintegra, compressa, corrugata, evalvis, disperma.
- CORONOPUS. Pouch nearly entire, compressed, wrinkled; without valves; with 2 seeds.
- THLASPI. Silic. emarginata, obcordata; valvulis marginato-carinatis.
- THLASPI. Pouch inversely heart-shaped. Valves (in some species) bordered; keeled:

TETRADYNAMIA. SILIQUOSA. 201

IBERIS. Silic. emarginata, obcordate. Pet. duo exteriora majora.

IBERIS. Two outermost petals the largest.

SILIQUOSA.

Pericarpium longissimum, polyspermum.

- * Calyx clausus, foliolis longitudinaliter conniven-
 - 1 Cup closed; the leafus approaching length ways.

RAPHANUS. Siliqua torosa, suborticulata.

RAPHANUS. Pod jointed.

ERYSIMUM. Siliqua tetragona.

ERYSIMUM. Pod 4-cornered.

CHEIRAN THUS. Germen utrinque glandula notatum. Sem. piena.

CHEIRANTHUS. Germen with a gland on each side its base.

ARABIS. Gland quatuor, reflexæ. Siliqua linearis torulosa.

ARABIS. Glands 4; within the leasits of the cup. Summit undivided.

TURRITIS. Siliqua stricta, subangulata. Cor. erecta.

TURRITIS. Petals upright.

1 202 TETRADYNAM. SILICULOSA. Draba.

BRASSICA. Siliqua teretiuscula. Sem. globosa.

BRASSICA: Glands, 2 within the shorter stamens; 2 on the outside the longer stamens.

* * Calyx hians, foliolis superne distantibus.

2. Cup open, the leafits wide asunder upwards.

CARDAMINE, Siliqua elastice dissiliens, valvulis revolutis. Stigma integrum. Cal. subhians.

CARDAMINE. Pod opening. Valves rolling back.

SISYMBRIUM. Siliqua dehiscens valvulis rectiusculis Cal. patulus.

SISYMBRIUM. -Pod opening. Valves nearly straight Cup open.

SINAPIS. Siliqua teretiuscula, dissepimento prominente. Cal. horizontaliter-patens.

SINAPIS. Pod opening. Cup expanding horizon-tally.

TETRADYNAMIA.

1 SILICULOSA.

DRABA. Smith. 677. With. 565.

Silicula integra, ovali-oblonga: valvulis planiusculis, dissepimento parallelis. Stylus vix ullus.

Pouch entire, elliptical-oblong, rather compressed. Valves flat, parallel to the partition. Style none.

TEIRADYN. SILICULOSA. Thlaspi. 203

- D. seapis nudis, petalis bipartitis, foliis lan- verna. ceolatis subincisis hirtis.
- D. Stalks naked: leaves sparingly serrated: petals divided.
- COMMON WHITLOW-GRASS. Walls and dry places; common. Newark; Southwell. A. March---April.
- THLASPI. Smith. 683. With. 568.
- Silicula emarginata, obcordata, polysperma: valvulis navicularibus, marginato-carinatis.
- Pouch inversely heart-shaped, notched at the end. Valves like a keeled boat, often winged with a border: cells many seeded.
- T. siliculis orbiculatis compressis lævibus, arvense, foliis oblongis dentatis glabris.
- T. Pouches round and flat: leaves oblong, toothed, smooth.
- PENNY CRESS. SMOOTH MITHRIDATE MUSTARD. Cornfields, and amongst turnips. Fields between Sutton-upon-Trent and Marnham.
 - A. June, July.
- T. siliculis subrotundis glanduloso-punctatis campessuperne marginatis, foliis sagittatis dentatio tre. on incanis.
- T. Pouches roundish: leaves arrow-shaped, toothed, houry.
- COMMON MITHRADATE MUSTARD. Cornfields, and sunny situations in a clayey soil. Brook-hill, near Kirkby.

 A June.
- T. hirsutum, siliculis deltoi leo-obcordatis, Bursa foliis radicalibus pinnatifidis. Pastoris.
- T. Pouches compressed, triangularly inversely heart-shaped, smooth, without a border. Root-leaves wing-cleft.

204 TETRADYN. SILICULOSA. Cochlearia.

COMMON SHEPHERD'S PURSE Among rubbish, road sides, walls, comfields, gravel-walks, and kitchen gardens; very common. Southwell; Newark.

A. March---Sept.

COCHLEARIA. Smith. 687. With. 571-

Silicula turgida, rugosa, polysperma: valvulis gibbis, obtusis.

Pouch notched at the end, turgid, rough, many seeded. Valve, butging, blunt.

Armo. C. foliis radicalions oblongis crenatis; cauracia. linis lanceolaus incisis integrisve.

> Koot-leaves spear-shaped, scolloped: stemleaves snipt.

MORSE-RADISH. Sides of ditches, in gardens. Newwark; Southwell. P. May.

nalis. C. foliis radicalibus subrotundis, caulinis obnalis. longis subsinuatis, siliculis globosis.

> C. Root-leaves heart-circular; stem-leaves oblong, a little indented.

> COMMON SCURVY-GRASS. Sea shores, and inland mountains. Not indigenous to this County, though found on Walls, at Kirkby. On Walls, at Wollaton. Deering.
>
> A. May.

CORONOPUS. Smith. 690. With. 574.

Silicula reniformis, compressa, corrugata, loculis evalvibus, monospermis.

Pouch kidney-shaped, compressed, wrinkled: cells without valves; 1 seed in each cell.

Ruellii. C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucissoris.

C. Leaves wing-cleft: stem depressed.

Cochlearia Coronopus. LINN. With.

COMMON WART-CRESS. SWINE'S CRESS. Cornfields, rnbbish, road sides; common. Newark; Southwell. A. June---August.

IBERIS. Smith. 692. With. 575:

Cor. irregularis: petalis duobus exterioribus majoribus. Silicula polysperma, emarginata.

Bloss. unequal, the two outer petals larger.
Pouch roundish, compressed. Partition
placed cross-ways; 1 seed in each cell.

- I. herbacea, foliis lyrato-sinuatis, caule cen-nudicautrali nudo simplici; lateralibus foliosis. lis.
- I. Herbaccous: leaves wing-cleft: stem naked, simple.

NAKED-STALKED CANDY-TUFT. Gravelly places, and very barren heaths. In the lane leading to Stapleford Moors, from the Sleaford Turppike; and on a bank by the road side under a Plantation belonging to Joseph Pocklington, Esq. North Muskham, mear Newark; Radford Lings. Deering. A. May.

11 SILIQUOSA.

CARDAMINE. Smith. 695. With 576.

Siliqua elastice dissiliens, valvulis revolutis, dissepimento æqualibus. Stigma integrum. Cal. subhians. Glandula utrinque solitaria inter stamina breviora et calycem.

206 TETRADYN. SILIQUOSA. Cardamine.

- Pod long wedged, opening with a jerk. Valves rolling back, parallel to the membranaceous partition. Summit a knob, entire: Calyx rather open.
 - * Foliis pinnatis.
 - 1 Leaves winged.
- hirsuta. C. foliis pinnatis exstipulatis: foliolis rotundato oblongis incisis petiolatis.
 - C. Leaves winged, leufits opposite: stamens 4.
 - HAIRY LADIES-SMOCK. Gravelly soil, on the driest banks, as well as in moist places, and by the sides of rivulets and springs. Farnsfield Carr.

A. March .-- June.

- praten- C. foliis pinnatis: foliolis radicalibus subrosis. tundis dentatis; caulinis lanceolatis.
 - C. Leafits of the root-leaves roundish, those of the stem-leaves spear-shaped: very entire.
 - MEADOW LADIES-SMOCK. CUCKOO FLOW-LR. Moist meadows and pastures. Newark; Southwell. P. April, May.
- amara. C. foliis pinnatis: foliolis radicalibus subrotundis; caulinis dentato-angulatis, caule basi radicante.
 - C. Leaves winged: suckers from the bosom of the leaves: leafits of the stem-leaves angular, sitting.
 - BITTER-CRESS. BITTER LADIES SMOCK.

 Near purls of water, rivulets, and banks of rivers,
 boggy places, moist meadows and pastures. On the
 Banks of the Greet, near the Hop Grounds, Southwell.

 P. April, May.

TENTRADYN. SILIQUOSA. Sisymbrium. 207

- SISYMBRIUM. Smith. 700. With. 580.
- Siliqua dehiscens valvulis rectiusculis. Cal. patens. Cor. patens.
- Pod cylindrical, opening. Valves straightish, about the length of the partition. Calyx and Bloss. expanding.
- S. siliquis declinatis, foliis pinnatts: foliolis Nasturcordato-subrotundis. tium.
- S. Leaves winged: leafits egg-shaped.
- WATER-CRESS. Springs, brooks, and tivulets. Newwark; Southwell. P. June, July.
- S siliquis declinatis, foliis pinnatis, foliolis sylveslanceolatis inciso-serratis. tie.
- S. Pods oblong-egg-shaped, or cylindrical: leafits spear-shaped, serveted.
- CREEPING WATER-ROCKRT. Maashy and watery places, and banks of rivers. Banks of the ditches beyond the Bridge from Newark to Kelham; Edingley Moors; Farnsfield Carr; Oxton Stews.

P. June --- Sept.

- S. siliquis declinatis pedicellatis, foliis oblon- amphigis pinnatifidis serratisve, petalis calyce lon- biumigioribus.
- S. Pods oblong-egg-shaped: leaves wing-cleft, serrated: petals longer than the cup.
- GREATER WATER-ROCKET, or RADISH.
 Banks of rivers and ditches. Ditches beyond Newark
 Bridge, and on the banks of the Trent, near the Meadows.
 P. June---August.
- S. foliis pinnato-decompositis subpilosis, pe- Sophia. talis calyce minoribus.

208 TETRADYN. SILIQUOSA. Erysimum.

- S. Petals smaller than the cups; leaves doubly compound-winged.
- FL!X-WEED. Walls, and amongst rubbish, cornfields. Southwell; Newark. A. July.
- ERYSIMUM. Smith. 706. With. 583.
- Siliqua recta columnaris, exacte tetraedra. Cal. clausus. Stigma capitatum,
- Pod straight, strap-shaped, exactly 4-sided. Cal. closed. Summit a knob.
- offici- E. siliquis rachi adpressis, foliis runcinatis.
 nale. E. Pods pressed to the spike-stalk: leaves
 notched.
 - COMMON HEDGE MUSTARD. Under walls and hedges, road sides, and among rubbish; very common.

 A. June, July.
- Barba- E. foliis inferioribus lyratis: lobo terminali rea. rotundato; superioribus obovatis dentatis.
 - E. Pods indistinctly 4-cornered: leaves lyreshaped, the terminating segment circular.
 - YELLOW ROCKET. BITTER WINTER-CRESS.
 Walls, banks on the sides of running streams, watery places, and sometimes in cultivated fields. Ditches and banks of the Trent, Newark; Southwell; Nottingham.

 P. May---August.
- Alliaria. E. foliis cordatis.
 - E. Leaves heart-shaped:
 - GARLICK HEDGE-MUSTARD. JACK BY THE HEDGE. SAUCE ALONE. Hedges, ditch banks, and shady places; common. Hedge bottoms, in shady lanes and road sides, Newark; Southwell. B. May.
 - CHEIRANTHUS. Smith. 709. With. 585.

TETRADYN. SILIQUOSA. Arabis. 209

- Germen utrinque denticulo glandulato. Cal. clausus; foliolis duobus basi gibbis. Semina plana.
- Germen with a glandular tooth on each side. Calyx closed, 2 of its leafits bulging at the base. Seeds flat.
- C. foliis lanceolatis acutis subtus canescenti-fruticubus, pubescentia simplicissima adpressa, losus. caule fruticuloso, ramis angulatis.
- C. Leaves spear-shaped, acute, smooth: branches angular: stem shrub-like.
- Chereianthus. Cheiri. LINN. With.
- WILD WALL-FLOWER. Old Walls and roofs. On the ruins of the Castle, at Newark, in abundance; Nottingham Castle. P. May, June.
- ARABIS. Smith. 711: With. 587.
- Glandulæ-nectariferæ quatuor, oblongæ, squamiformes, reflexæ. Cal. clausus; foliolis duobus basi gibbis. Stigma simplex. Soliqua linearis, torulosa.
- Nectary, glands 4, within the leafits of the callyx, resembling a reflected scale. Pod long, compressed, strap-shaped, entire and nobbed at the end.
- A. foliis pilosis subdentatis: radicalibus petio- thalialatis, caule ramoso, siliquis adscendentibus. na.
- A. Stem-leaves spear-shaped, on leaf-stalks, very entire: 100t-leaves egg-spear-shaped, toothed.

210 TETRADYN. SILIQUOSA. Turritis.

- COMMON WALL-CRESS. Walls, roofs, dry sandy banks, and cornfields. Quonce Close, at Newark; Banks in the Foot-paths going to Kelham from Newark; Hedges near Muskham Bridge, and Thorpe Tollbar.

 A. April.
- TURRITIS. Smith. 715. With. 588.
- Siliqua longissima, stricta, sub-angulata. Cal. connivens, erectus. Cor. erecta.
- Pod very long, angular, stiff and straight. Calyx close, upright. Bloss. upright.
- glabra. T. foliis radicalibus dentatis hispidis; caulinis integerrimis amplexicaulibus.
 - T. Root-leaves toothed, rough with hair; stem-leaves very entire, embracing the stem, smooth.
 - SMOOTH TOWER-MUSTARD. Meadows, pastures, pits, and waste places, in a gravelly soil. By the Road about a mile beyond Blyth, on the left-hand; also in going from Cuckney, as you descend the hill into Warsop; Fields at Radford and Lenton. Deering.

A. May, June.

- hirsuta. T. foliis omnibus hispidis, caule hirto pilis simplicibus patentibus, siliqua quadrangulari.
 - T. All the leaves hisped: stem-leaves embracing the stem.
 - HAIRY TOWER-MUSTARD. Rocks, stony places, old walls, and castles. Rock at Newstead, the seat of Lord Byron; Bulwell Lime Quarries. P. May.
 - BRASSICA. Smith. 717. With. 589.
 - Cal. erectus, subconnivens. Semina globosa. Siliqua teretiuscula; dissepimento prominente, subulato. Glandula nectarifera quatuor.

- Calyx upright, close. Glands 1 between each shorter stamen and the pistil, and 1 between each pair of longer stamens and the calyx. Seeds globular.
- B. radice caulescente fusiformi, foliis lævi- Napus. bus: superioribus cordato-lanceolatis amplexicaulibus: inferioribus lyratis dentatis.
- B. The root a regular continuation of the stem; spindle-shaped.
- RAPE, NAVEW, or COLE-SEED. On ditch banks, and among corn. Newark; Southwell * Mansfield.

 B. May.
- B. radice caulescente orbiculari depressa car- Rapa. nosa, foliis radicalibus lyratis scabris cauli- nis integerrimis lævibus.
- B. The root a regular continuation of the stem; round, depressed, fleshy.
- TURNEP. Fields and gardens; common. B. April.
- SINAPIS. Smith. 721. With. 594.
- Cal. patentissimus. Cor. ungues recti. Glandulæ nectariferæ quatuor. Siliqua teretiuscula, dissepimento prominente.
- Cal. expanding. Bloss. claws upright. Glands between the shorter stamens and the pistil, and between the longer stamens and the calyx. Pod beaked, opening. Valves shorter than the partition.
- S. siliquis multangulis toroso-turgidis rostro arvensis. ancipiti longioribus, foliis ovatis sublyratis.
- S. Pods with many angles, swolnand bunched out by the seeds: smooth, longer than the two edged beak.

212 TETRADYN. SILIQUOSA. Raphanus.

- CHARLOCK. WILD MUSTARD. Cornfields, and borders of fields. Newark; Southwell. A. May.
- alba. S. siliquis hispidis torosis rostro ancipiti brevioribus, foliis pinnatifidis.
 - S. Pods rough with hair: beak very long, slanting, sword shaped.
 - WHITE MUSTARD. Cornfields, road sides, and in gardens. Newark; Southwell; Mansfield. A. June.
- nigra. S. siliquis glabris tetragonis racemo adpressis, foliis summis lineari-lanceolatis integerrimis glabris.
 - S. Pods smooth, laid flat to the spike-stalk.
 - COMMON MUSTARD. Cornfields, ditch banks. and road sides. Newark. A. June.
 - RAPHANUS. Smith. 723. With. 596.
 - Cal. clausus. Glandulæ nectariferæ quatuor... Siliqua teres, torosa, subarticulata.
 - Cal. close, upright. Nect. glands 2 between the shorter stamens and the pistil, and 2 between tween the longer stamens and the calyx. Pod round, but protuberating, with cells, and nearly jointed.
- Rapha-R. siliquis articulatis lævibus unilocularibus. nistrum: R. Pod's round, jointed, smooth, of 1 cell.
 - GREAT WHITE CHARLOCK. WILD RADISH.

 JOINTED CHARLOCK. Amongst corn, and borders of fields. Newark.

 A. June, July.

Classis XVI.

MONADELPHIA.

Filamenta inferne in unum corpus coalita.

PENTANDRIA.

Stamina 5 perfecta.

ERODIUM, Monogynia. Fructus pentacoccus, rostratus; rostra spiralia, introrsum barbata.

ERODIUM. Pistil 1. Fruit beaked, separating into 5 capsules, each tipped with a long spiral awn, bearded on the inside.

DECANDRIA.

Stamina 10.

GERANIUM. Monogyna. Fruit pentacoccus, rostratus: rostra recurva, nuda.

GERANIUM. Pistil 1. Common Receptacle beaked. Caps. 5 dry berries; with a long beak; beaks bent back, naked.

POLYANDRIA.

Stamina plurima.

Pistils many.

MALVA. Polygyna. Cal. exterior triphyllus. Caps. verticillatæ, monospennæ.

MALVA Outer cup 3 leaves. Seed-coats several; in whirls; I seed in each.

MONADELPHIA.

1 PENTANDRIA.

ERODIUM. Smith: 727.

- Cal. pentaphyllus. Cor. pentapetala. Glandulæ nectariferæ 5. Filamenta 5, sterilia. Fructus pentacoccus, rostratus; rostra spiralia introrsum barbata.
- Cal. 5-leaved. Pet. 5. Honey glands 5. Barren Filaments 5. Fruit beaked, separating into 5 capsules; each tipped with a long spiral awn bearded inside.
- cicutari- E. pedunculis multifloris, foliis pinnatis; um. foliolis pinnatifidis incisis.
 - E. Flowers in umbels: leafits sitting, wingcleft, blunt: petals entire.

MONADELPHIA. DECAND. Geranium: 215

Geranium cicutarium. With.

HFMLOCK. STORK'S-BILL, Bubbish and banks, in a sandy soil; frequent. Farnsfield, A. June---Aug.

11 DECANDRIA.

- GERANIUM. Smith. 729. With. 600.
- Cal. pentaphyllus. Cor. pentapetala. Glandulæ nectariferæ 5. Fructus pentacoccus, rostratus: rostra recurva, nuda.
- Cal. with 5 divisions. Bloss. 5 petals. Pist. 1.
 Summus 5, common receptacle beaked. Seeds
 5, with a very long twisted tail bent back,
 naked.
- G pedunculis bifloris paniculatis erectis, ca-phaum. lyce subaristato, capsulis carinatis: basi hispidis; apice corrugatis.
- G. Fruit stalks solitary, 2-flowered, opposite the leaves: caly x somewhat awned: stem up-right: petals waved.
- DUSKY CRANE'S-BILL. Mountainous pastures; very rare. Beyond Nottingham, in the way to Alfreton. Rev. G. CRABBE. P. May, June.
- G- pedunculis bifloris, foliis subseptemparti- pratis inciso serratis, capsulis undique pilosis, tense. staminus basi deltoideis.
- G. Leaf-stalks nearly central; leaves with many divisions, wrinkled; lobes with winged clefts, acute: petals entire.

216 MONADELPHIA. DECAND. Geranium.

- CROWFOOT-LEAVED CRANE'S-BILL. Moistish meadows and postures; not uncommon. Newark. Averham, and Southwell Meadows. P. June, July.
- *oberti- G. pedunculis bifloris, foliis subpedatis pinanum. natifidis quinquangularibus, calycibus decangularibus, capsulis rugosis.
 - G. Leafits by fives or by threes, lobes wingcleft: calyx with 10 angles.
 - STINKING CRANE'S-BILL. HERB RCBERT. Walls. hedges, rubbish, and stony places. Newark; Southwell. A. May---October.
- molle. G. pedunculis bifloris alternis oppositifoliis, foliis rotundatis lobatis tomentosis, capsulis corrugatis glabris.
 - G. Fruit-stalks and floral-leaves alternate: pctals cloven: calyx awnless: stem somewhat upright.
 - DOVE'S-FOOT CRANE'S-BILL. Dry branks, cornfields, meadows, and pastures, in a sandy soil. New-ark; Southwell.

 A. April---August.
- dissec- G. pedunculis bifloris, petalis emarginatis, tum. foliis quinquepartitis laciniatis, capsulis hirsutis, seminibus reticulatis.
 - G. Fruit-stalks shorter than the leaves: leaves 5 lobed, lobes 3-cleft or many-cleft: petals notched, seed coats with soft hairs.
 - JAGGED-LEAVED CRANE'S-BILL. Road sides, borders of fields, and ditch banks. Newark; Southwell. A. May, June.
- binum. G. pedunculis bifloris folio triplo longioribus, binum. foliis quinquepartitis multifidis, capsulis glabris, seminibus renculatis.

MONADELPHIA. POLYAND. Malva. 219

- G. Fruit-stalks longer than the leaves: leaves 5-lobed, lobes many-cleft: calyx 5 sided: seed-coats smooth.
- LONG-STALKED CRANE'S BILL. Cornfields, pastures, and hedges. Newark; Southwell; Mansfield.
 A. June, July.

III POLYANDRIA.

- MALVA. Smith. 740. With. 612.
- Cal, duplex; exterior subtriphyllus. Caps. plurimæ, monospermæ, in orbem dispositæ.
- Calvx double, the outer mostly of 3 leaves. Capsules 8 or more, in a whirl; 1, rarely 2-celled: 1 seed in each.
- M. caule erecto herbaceo, foliis septemloba- sylvestis acutis, pedunculis petiolisque pilosis. tris.
- M. Stem rough: leaves 5 or 7-lobed, toothed: outer calyx leafits partly united at the base.
- COMMON MALLOW. Hedges, foot-paths, and a-mongst rubbish; very common. Newark; Southwell.
 P. May -- August.
- M. caulibus prostratis, foliis cordato-orbicu- rotundilatis quinquelobis, pedunculis fructiferis folia. declinatis.
- M. Stem prostrate: leaves heart-shaped circular, plaited, 5 or 7-lobed: fruit-stalks when ripe declining.
- DWARF- MALLOW. Road sides, among rubbish. Streets in Mansfield and Southwell. A. June---Sept.

218 MONADELPHIA. POLYAND. Malva.

- moscha: M. foliis radicalibus reniformibus incisis; ta. caulinis quinquepartitis pinnato-multifidis, calyce piloso.
 - M. Stem upright: root-leaves kidney-shaped, cut: stem-leaves with 5 divisions: segments between winged and many-cloven: leafits of the outer cup distinct.
 - MUSK MALLOW. Meadows, pastures, road sides, and ditch banks; not common. About the Temple, at Kirklington; Farnsfield; Mansfield; in the Foot-way between Oxton and Calverton; and on the Road between Retford and Worksop. P. July, August.

Classis XVII.

DIADELPHIA.

Filamenta in duo corpora connexa.

HEXANDRIA.

Stamina 6.

FUMARIA. Cal. diphyllus. Cor. ringens, basi gibbosa nectarifera. Filam. antheris tribus.

FUMARIA. Cal. 2 leaves. Bloss. gaping, bulging at the base, and containing honey. Filaments with 3 anthers.

OCTANDRIA.

Stamina 8.

POLYGALA. Cal. laciniæ 2 alæformes. Cor. vexillum cylindricum. Legumen obcordatum, biloculare.

POLYGALA. Cal. with 2 segments like wings. Bloss. standard cylindrical. Stamens connected. Caps. inversely heart-shaped, 2-celled.

DECANDRIA.

Stamina 10.

- 1 Stamina omnia connexa, seu monadelpha, tubo superne sæpius fisso.
 - 1 Stamens all united.
- SPARTIUM. Filam. germini adhærentia. Stigma adnatum, villosum.
- SPARTIUM. Filaments adhering to the germen. Summit hairy, growing to the upper side of the style.
- GENISTA. Pistillum deprimens carinam, vexillo reflexo.
- GENISTA. Pistil pressing down the keel. Summit rolled inwards.
- ULEX. Cal. diphyllus. Legumen vix calyce lon-gius.
- ULEX. Cup 2 leaves. Legumen hardly longer than the cup.
- ANTHYLLIS. Cal. turgidus, legumen includens.
- ANTHYLLIS. Cup swoln and turgid; inclosing the legumen.
- ONONIS. Cal. quinquepartitus. Legumen rhombeum, sessile. Vexillum striatum.
- ONONIS. Legumen diamond-shaped, sitting. Standard scored.
 - * * Stigma pubescens (necpriorum notæ)
 - 2 Summit downy: filaments 9 united; 1 distinct:

OROBUS. Stylus linearis, teretiusculus, supra villosus.

OROBUS. Style slender, nearly cylindrical; woolly on the upper or inner side.

LATHYRUS. Stylus supra planus villosusque;

LATHYRUS. Style flat, and woolly above:

VICIA. Stylus sub stigmate barbatus:

VICIA. Style bearded under the Summit.

ERVUM. Stigma capitatum, undique pubescens:

ERVUM. Cup with 5 divisions, nearly equal; and nearly as long as the blossom.

* * * Legumen sub-biloculare. (nec priorum notæ.).

3 Legumen 2-celled.

ASTRAGALUS. Legumen biloculare, gibbum.

ASTRAGALUS. Legumen 2-celled, curved.

** * * Legumen submonospernum. (nec priorum notæ.)

4 Legumen with about 1 seed:

TRIFOLIUM. Legumen vix calyce longius, 1 sive polyspermum, non dehiscens, deciduum. Flores capitati.

TRIFOLIUM. Legumen longer than the cup; with 1. or two seeds: flowers (mostly) in heads.

* * * * * Legumen subarticulatum. (nec priorum notæ.)

5 Legumens almost jointed; sometimes spiral.

HEDYSARUM. Legumen articulis monospermis, compressis. Carina obtusissima.

222 DIADELPHIA. HEXANDRIA. Fumaria.

- HEDYSARUM. Legumen with roundish compressed joints. Keel very blunt.
- ORNITHOPUS. Legumen articulatum, arcuatum.
- ORNITHOPUS. Legumen jointed; bent like a bow.
- HIPPOCREPIS. Legumen compresso-membranacum, altera sutura pluries emarginatum, curvum.
- HIPPOCREPIS. Legumen compressed; membranaceous; 1 of the seams hollowed out with deep notches.
- MEDICAGO. Legumen spirale, compresso-membranaceum. Pistillum carinam deflectens.
- MEDICAGO. Legumen spiral; membranaceous: compressed. Pistil pressing down the keel.
- * * * * * * Legumen uniloculare, polyspermum. (nec priorum notæ.)
- 6 Legumen 1-celled; many-seeded, (without the mark of the former sub-divisions.)
- LOTUS. Legumen teres, farctum. Alæ sursum longitudinaliter conniventes:
- LOTUS. Legumen cylindrical; filled with cylindrical seeds,

XVII DIADELPHIA.

11 HEXANDRIA.

FUMARIA. Smith. 748. With. 629.
Cal. diphyllus. Cor. ringens. Filamenta duo, membranacea, singula antheris tribus.

DIADELPHIA. OCTANDRIA. Polygala. 223

- Calyx 2-leaved. Bloss. gaping. Filaments 2, membranaceous, each supporting 3 anthers. Caps. 1-celled, many-seeded.
- F. spicis laxis, siliquis monospermis globosis officiemarginatis, caule difluso, foliolorum laci- nalis.
- F. Seed-vessels in bunches, 1 seed in each: stem spreading.
- COMMON FUMITORY. Cornfields, hedge banks, gardens; common. Newark; Southwell.

 A. May---August.

11 OCTANDRIA.

POLYGALA. Smith. 752. With. 622.

- Cal. pentaphyllus: foliolis duobus maximis, alæformibus, coloratis. Legumen obcordatum, biloculare.
- Calyx 5-leaved, 2 larger wing-like, before the ripening of the seeds, coloured. Caps. inversely heart-shaped, 2-celled. Seeds solitary.
- P. floribus cristatis racemosis, caulibus herba- vulgaceis simplicibus procumbentibus, foliis line- risari-lanceolatis.
- P. Flowers in bunches: stems herbaceous, simple, trailing: leaves strap-spear-shaped.
- MILKWORT. Pastures and heaths; not uncommon. Newark; Southwell. P. June, July,

DECANDRIA.

- SPARTIUM. Smith. 753. With. 623.
- Stigma longitudinale, supra villosum. Filamenta monadelpha, germini adhærentia. Cal. deorsum productus.
- Cal. extending downwards; 2-lipped. Filaments adhering to the germen. Summit woolly above.
- scopari- S foliis ternatis solitariisque, ramis inermium. bus angulatis.
 - S. Leaves in threes, and solitary: branches without prickles, angular.
 - COMMON BROOM. Dry pastures, and road sides in a sandy soil. In the Road between Retford and Worksop, plentifully.

 S. May, June.
 - GENISTA. Smith. 754. With. 624.
 - Cal. bilabiatus; labio superiore bidentato, inferiore tridentato. Vexillum oblongum, a pistillo staminibusque deorsum reflexum.
 - Calyx 2-lipped, the upper 2, the lower 3-toothed. Standard oblong, bent back from the stamens and pistil. Legumen regular shaped.
- tincto- G. foliis lanceolatis glabris, ramis teretibus ria. striatis erectis inermibus.
 - G. Branches scored, cylindrical, upright: leaves spear-shaped, smooth: legumen cylindrical.
 - DYER'S GREEN-WEED. WOOD WAXEN. Pastures, and borders of comfields; frequent. S. July---August.

- G spinis simplicibus, ramis floriferis inermi- anglica, bus, foliis ovato-lanceolatis.
- G. Very thorny; smooth: thorns simple and compound: leaves spear-shaped.
- NEEDLE GREEN-WEED. PETTY-WHIN.
 Heaths, and moist sporgy ground. Edingley, Stapleford, and Langford Moors. S. May, June.
- ULEX. Smith. 756. With. 626.
- Cal. diphyllus. Legumen vix calyce longius. Stam. omnia connexa.
- Calyx 2-leaved. Legumen scarcely longer than the calyx:
- U. dentibus calycinis obsoletis conniventibus, eurobracteis ovatis laxis, ramulis erectis. pæus.
- U. Teeth of the calyx indistinct, converging: floral leaves egg-shaped, loose: branches upright.
- COMMON FURZE. WHIN or GORZE. Heaths, road sides, and pastures; very common. S. Feh--Aug-
- U. dentibus calycinis lanceolatis distantibus, nanus. bracteis minutis adpressis, ramulis decumbentibus.
- U. Teeth of the calyx spear-shaped, distant: floral-leaves small, pressed to the calyx; branches expanding.
- U. curopæus. Var. 2. With.
- DWARF-FURZE. Heaths, road sides; not very common. Beyond Potter's Hill, in closes near Thurlby Moors.

 S. August---October.
- ONONIS. Smith. 758. With. 627.
- Cal. quinquepartitus; laciniis linearibus. Vexillum striatum. Legumen turgidum,

226 DIADELPHIA. DECANDRIA. Authyllis.

rhombeum, sessile. Filamenta monodelpha absque fissura.

- Cal. with 5 divisions; segments strap-shaped.

 Standard scored. Filaments united without an opening. Segments swoln, sitting, simple, of 1 celt.
- ervensis. O. caule villoso, ramulis demum spinescentibus, floribus subsolitariis, foliis subsimplicibus postice integerrimis.
 - O. Flowers in bunches, 2 together; leaves 3 together, the upper ones solitary: branches without thorns, somewhat woolly.
 - A. O inermis. Hudson. O. arvensis. With.
 - HAIRY REST-HARROW. Light sandy soil; not common. Blidworth. P. June.
 - B: O. spinosa. LINN. With.
 - THORNY REST-HARROW. CAMMOCK. Barren pastures, and hedge banks, in a sandy or marly soil; common. Southwell; Halam Hill. P. June---Aug.
 - ANTHYLLIS. Smith. 759. With. 629.
 - Cal. ventricosus. Legumen subrotundum, callyce tectum. Stamina monadelpha.
 - Calyx bellying. Legumen roundish, covered.
 - vulnera-A. herbacea, foliis pinnatis inæqualibus, caria. pitulo duplicato.
 - A. Herbaceous: leaves winged, unequal: flowers in a double head.
 - KIDNEY-VETCH LADIES-FINGER. Meadows and pastures, in a chalky or calcareous soil. Newark and Averham Meadows; Oxton Hill; Kirkby; Butwell; and about Bankwood Farm, in the Spring close, on the side of Brockwood hill; near Thorney moor holt, at Southwelt.

 P. June---August.

- OROBUS. Smith. 761. With. 630.
- Stylus linearis, teretiusculus, supra villosus. Cal. basi obtusus; laciniis superioribus profundioribus, brevioribus.
- Calyx blunt at the base; the 2 upper teeth shorter, but more deeply divided. Style threadshaped.
- O. foliis pinnatis elliptico-lanceolatis, stipu-tuberolis semifagittatis basi dentatis, caule simpli- sus. ci.
- O. Leaves winged, spear-shaped: stipulæ halfarrow-shaped, very entire: stem simple.
- COMMON OROBUS. HEATH PEA. Moist heaths, and woody situations; not common. Thickets near Oxton Tollbar; Eperstone Wood; Miss Tottie's Wood; Warnham Wood, near Kneesall.

 P. May, June.

LATHYRUS. Smith. 763. With. 631.

Stylus planus, supra villosus, superne latior. Cal. laciniæ superiores duæ breviores.

Cal: 2 upper segments shorter. Style flat, broader upwards; woolly on the upper surface. Legumen generally equal, broad.

* Pedunculis unifloris.

1 Fruit-stalks 1 flowered.

- L. pedunculis subunifloris, foliis simplicibus, Nissostipulis subulatis. lia.
- L. Leaves simple: stipula awl-shaped.
- CRIMSON LATHYRUS, or GRASS-VETCH. Borders of cornfields and pastures; rare. On the sides of the Cornfields on Beacon Hill, Newark. A. May.

238 DIADELPHIA. DECANDRIA. Vicia?

- * * Pedunculis multifloris.
- 2 Fruit-stalks many-flowered.
- praten- L. pedunculis multifloris, cirrhis diphyllis subsis. semplicibus: foliolis lanceolatis.
 - L. Tendrils with 2 leaves, quite simple: leafits spear-shaped.
 - YILLOW LATHYRUS. MEADOW VETCH-LING. Meadows, pastures, woods, thickets, and hedges. Newark; Southwell. P. July, August.
- sylves. L. pedunculis multifloris, circhis diphyllis: tris. toliolis ensiformibus, caule alato.
 - L. Tendrils with 2 leaves: leafits sword-shaped: stem with membranaceous borders between the knots.
 - NARROW-LEAVED LATHYRUS, or EVER-LASTING PEA. Woods and hedges; not common. In the Hedge on the left-hand immediately after passing through the Tollbar on Debdon Hill, between Kelham and Caunton: Dr. Buck. Pales of Colwick Park. Mr. Brunton. P. July, August.

VICIA. Smith. 768. With. 635.

Stigma latere inferiori transverse barbatum.

Summit bearded across underneath. Legumen generally with knot-like protuberances.

- * Pedunculis elongatis, multifloris.
- 1 Fruit-stalks long; many flowered.
- sylvati- V. pedunculis multifloris, foliolis ellipticis, ca. stipulis lunatis dentatis.
 - V. Leafits ovil: stipnlæ finely toothed.
 - WOOD-VETCH. Woods and thickets. Eperstone and Flint vam Woods; Manner Gorze, in the Parish of Eakring, under a large Oak. P. July, Aug.

- V. pedunculis multifloris, floribus imbricatis, Cracca. foliolis lanceolatis pubescentibus, stipulis semisagittatis subintegris.
- V. Flowers tiled: leasits spear-shaped, pubescent: stipulæ entire.
- TUFFED VETCH. Hedges, shady places, meadows, fields and willow beds; column. On the banks of the Trent ditches, and in the meadows, at Newark and Southwell.

 P. July, August.
 - * * Floribus axillaribus subsessilibus.
 - 2. Flowers 2 or more together, nearly sitting.
- V. leguminibus sessilibus subbinatis erectius- sativa: culis, foliis inferioribus retusis, stipulis dentatis notatis, seminibus lævibus.
- V. Legumens mostly in pairs, upright: leafits inversely spear-shaped, blunt, notched: sti-pulæ toothed: seeds compressed.
- COMMON VETCH: Dry meadows, pastures, and cornfields. Newark; Southwill. A. May, June.
- V. leguminibus pedicellatis subquaternis e- sepium. recus glabris, foliolis ovatis obtusis: exte-rioribus minoribus.
- V. Legumens mostly 4 together, upright: leafits egg shaped, very entire, the outer ones gradually smaller.
- BUSH VETCH. Woods, hedges, pastures, headows. Newark; Southwell; Mansfield P. May, June.

ERVUM. Smith. 775. With. 639.

Stigma capitatum, undique pubescens.

Calyx with 5 divisions, as long as the blossom,

230 DIADELPHIA. DECANDRIA. Ornithopus.

- tetras- E. pedunculis bisloris, leguminibus glabris permum. polyspermis.
 - E. Fruit-stalks mostly 2 flowered; seeds 4, glo-bular.
 - SMOOTH TARE. Corn-fields, hedges, and borders of ploughed fields. Edingley Hill; Eperstone; New-ark; Southwell.
- hirsutum. E pedunculis multifloris, leguminibus hirsutis dispermis.
 - E. Fruit-stalks many-flowered: seeds 2, glo-bular.
 - HAIRY TARE. Sandy corn-fields and meadows. New-ark. Southwell. Edingley Hill. 1 perstone. A. June.
 - ORNITHOPUS. Smith. 776. With. 640.

Legumen articulatum, teres, arcuatum.

Seed vess. cylindrical, but jointed and crooked.

- perpusil- O. foliis pinnatis, leguminibus incurvis.
 - lus. O. Leaves winged: legumens bowed in, much larger than the wingea flower-scale.
 - COMMON BIRD'S-FOOT. Sandy banks, road sides, neaths and pastures; very frequent. Newark; Nottingham Park.

 A. May.
 - .HIPPOCREPIS. Smith. 777. With. 641.
 - Legumen articulatum, compressum, altera sutura pluries emarginatum, curvum.
 - Seed vessel many-celled, compressed, crooked, with several notches along one of the seams.
 - comosa. H. leguminibus pedunculatis confertis arcuatis margine exteriore repandis.

DIADELPHIA. DECANDRIA. Hedysarum. 231

H. Legumens on fruit-stalks, crowded, bowed, serpentine.

TUFFED. HORSE SHOE VETCH. Meadows and pastures in a calcareous soil; rare. In Nottingham Park, but not very common. Deering. A diligent and repeated, though fruitless, search has been made in Nottingham Park for this plant, which I have not been able to find in Nottinghamshire. In the neighbouring county of Lincoln it grows very abundantly, with many other rare species, upon Ancaster Heath.

P. May---August.

HEDYSARUM. Smith. 778. With. 642.

Legumen articulis monospermis. Cor. carina transverse obtusa.

Keel broad and blunt on the outer part. Legumen jointed, 1 seed in each joint.

H. follis pinnatis, leguminibus monospermis Onobryaculeatis, corollarum alis longitudine ca- chis. lyces, caule elongato.

H. Leaves winged: legumens with 1 seed, prickly: wings as long as the calyx: stem growing long.

SAINT-FOIN. Meadows and pastures, particularly in a chalky soil. Beacon Hill Fields, Newark.
P. June, July.

ASTRAGALUS. Smith: 779. With. 642. Legumen biloculare gibbum.

Caps. generally 2-celled; bulging: the solitary filaments cylindrical.

A. caulescens prostratus, leguminibus subtri- glyciquetris arcuatis, foliis pedunculo longiori- phyllos. bus; foliolis ovatis.

292 DIADELPAIA. DECANDRIA. Trisolura.

- A. Stems prostrate: legumens nearly 3 cornered, bent like a bow: leaves longer than the fruit-stalks: leafits oval.
- SWEET MILK-VETCH. Meadows, pastures, and ditch banks, especially in a calcareous soil. Hedge banks between Newark and Hawton; between the 3d Mile Post and Thorpe-lane Tollbar; and in the hedges going up the hill into Stoke, from the Tollbar. P. June.
- TRIFOLIUM. Smith. 781. With. 645.
- Flores subcapitati. Legumen vix calyce longius, non dehiscens, deciduum.
- Flowers mostly forming a head. Capsule or Legumen scarcely longer than the calyx; not opening, but falling off entire.
- * Meliloti. Leguminibus nudis polyspermis.
- 1 Melilots. Capsules naked, 1-celled, containing several seeds.
- sffici- T. leguminibus racemosis nudis dispermis runale. gosis acutis, caule erecto.
 - T. Capsules in bunches, often 2-seeded, wrinkled, acute: stem upright.
 - T. Melilotus-officinalis. LINN. With.
 - COMMON MELILOT. Cornfields, meadows, and ditch banks, in clayey soil; Newark; Southwell.

 A. June, July.
 - * * Lotoidea. Leguminibus tectis polyspermis.
 - 2 Legumens covered; many-seeded.
- repens. T. capitulis umbellaribus, leguminibus tetraspermis, caule repente.
 - T. Heads like umbels: legumens 4-seeded: stem creeping.

DIADELPHIA. DECANDRIA. Trifolum 233

- WHITE TREFOIL. DUTCH CLOVER. Meadows and pastures. Newark; Southwell.
 - * * * Lagopoda. Calycibus sæpius villosis.

 3. Calyxes woolly.
- T. capitulis villosis subquadrifloris, involu-subtercro centrali reflexo rigido stellato fructum raneum. obvolvente.
- T. Heads woolly; 5-flowered; a rigid tuft from the centre reflected upon, and inclosing the fruit.
- SUBTERPANEOUS TREFOIL. Barren heaths and pastures, in sandy or gravelly soil. Quouce Hill Close, Newark; Langford; Sherwood Forest. A. May.
- T. spicis densis, caulibus adscendentibus, pratense. corollis inæqualibus, dentibus calycinis quatuor æqualibus, stipulis aristatis.
- T. Spikes crowded: blossoms unequal: calyx with 4 of the teeth equal: stipulæ awned: stems ascending.
- COMMON PURPLE TREFOIL, or CLOVER.
 HONEYSUCKLE TREFOIL. Meadows and pastures. Cultivated near Newark, Southwell, Mansfield, Nottingham.

 P. May---Sept.
- T. spicis laxis, caulibus flexuosis ramosis, medium. corollis subæqualibus, stipulis subulato-linearibus.
- T. Spikes loose; blossom nearly regular; stipulæ awl-shaped, converging; stems zigzag, branched.
- ZIG-ZAG TREFOIL. In high calcareous soils; not uncommon. Halam Hill; Southwell. P. July.
- T. spicis villos ssimis subcylindraceis, denti- arvense bus calycinis setaceis corolla longioribus,

234 DIADELPHIA. DECANDRIA. Lotus.

foliolis obovato-linearibus.

- T. Spikes woolly, oval: teeth of the calyx bristle-shaped, woolly, equal.
- HARE'S-FOOT TREFOIL. Sandy pastures and corn-fields. Sides of the hills in the Quonce Close; Sandy pastures towards Hawton; in a nursery of mine at Balderton, frequent; Farnsfield; Blidworth A. July, August.
- * * * * Lupulina. Vexillis corollæ reflexis, demum scariosis:
- 4. Hop Trefoils. Standard of the bloss. bent inwards permanent.
- procum- T. spicis ovalibus imbricatis, vexillis deflexbens. is persistentibus sulcatis, caulibus procumbentibus, foliolis obovatis.
 - T. Spikes oval, closely tiled, many-flowered: stems wide spreading.
 - HOP TREFOIL. Dry meadows and pastures: sandy ground by road sides. Newark; Southwell; Mansfield.

 A. June, July.
 - LOTUS. Smith. 793. With. 656.
 - Legumen cylindricum, strictum. Alæ sursum longitudinaliter coniventes. Cal. tubulosus.
 - Calyx tubular. Wings converging lengthways, and upwards. Legumens straight, generally with cells.
- cornicu-L. capitulis dépressis multiloris, caulibus latus decumbentibus, leguminibus teretibus patentibus.
 - L. Heads of the flowers flatted at the top: stems herbaceous, trailing: legumens cylindrical, expanding:
 - COMMON B!RD'S-FOOT TREFOIL: Meadows, pastures, heaths, and foad sides; very common.

 P. June---Augusti-

DIADELPHIA. DECANDRIA. Medicago. 235

- MEDICAGO. Smith. 795. With. 658.
- Legumen compressum, cochleatum, carinam corollæ a vexillo deflectens.
- Pistil bent, pressing down the keel and springing out of it with a jerk. S. vess. a legumen, compressed, bent, or twisted spirally.
- M. Pedunculis racemosis, leguminibus con-sativa. tortis, caule erecto glabro.
- M. Flowers in bunches: legumens narrow, regulár, twisted: stem upright, smooth.
- tures, and ditch banks, culivated at Newark Mansfield; Hoveringham. P. June, July.
- M. spicis ovatis, leguminibus reniformibus lupuline: venoso-corrugatis monospermis, caule pro-cumbente.
- M. Spikes oval: S. vessels hidney-shaped, with 1 cell, and 1 seed: stems trailing.
- BLACK MEDICK, or NONSUCH. Cornfields, meadows, and pastures. Newark; Southwell. A. May---August.
- M. leguminibus cochleatis, stipulis subdenta- polytis, caule diffuso. morpha.
- M. Fruit-stalks with 2 or 3 seed-vessels: legumens prickly: stipulæ toothed: leafits inverseley heart-shaped: stems spreading.
- A. M. polymorpha arabica. LINN. M. arabica. With.
- HEART MEDICK, or CLAVER. Dry sandy pastures, borders of fields. On a bank by the foot closes between Newark and Kelham; on the outside of the Church-yard at Averham. S. May, June,

Classis XVIII.

POLYADELPHIA.

Filamenta in tria, vel plura, corpora connexa.

POLYANDRIA.

Stamina numerosa.

HYPERICUM. Cal. quinquepartitus, inferus. Petula 5. Filamenta in 3 vel 5 phalanges basiconnata. Capsula polysperma.

HYPERICUM. Cal. with 5 divisions beneath...
Bloss. 5 petals. Styles 1, 3 or 5. Capsules 1, 3 to 5 celled.

1 POLYANDRIA.

HYPERICUM. Smith. 800. With. 663.

Cal. quinquepartitus, inferus: Petala 5. Filamenta multa, in 3 vel 5 phalanges basi connata. Capsula polysperma.

Cal. with 5 divisions. Petals 5. Filaments numerous, united at the base into 3 or 5 sets.

Capsule with 3 or 5 cells, and many seeds.

- H. floribus trigynis, caule quadrangulo her-quadranbaceo, foliis pellucido-punctatis, foliolis gulum. calycinis lanceolatis.
- H. Leaves egg-shaped, with pellucid dots: stem 4-cornered.
- SQUARE ST. JOHN'S WORT. ST. PETER'S WORT. Moist hedges and shady places. ground in the Quonce Close, Newark; Oxton Stews; P. July, August. Edingley Moors.
- H. floribus trigynis, caule ancipiti, foliis ob- perforatusis pellucido-punctatis, foliolis calycinis lanceolatis.
- H. Stem 2-edged: leaves blunt; with pellucid dots.
- PERFORATED ST. JOHN'S WORT, Thickets, woods, hedges, dry banks. Barnby lane, Newark; Southwell. P. July, August.
- H. floribus trigynis subcymosis, caule anci-humifupiti prostrato, foliis ellipticis glabris. sum.
- H. Flowers auxillary, solitary: stems 2-edged, prostrate, thread-shaped: leaves smooth.
- TRAILING ST. JOHN'S WORT. Meadows, pastures, heaths. Ditch banks about Coddington, and in the lane leading to the Moors of Stapleford and Langford; Edingley Moor; Oxton Stews; Radley, adjoining Thurgaton Boundary.
- H. floribus trigynis, calycibus serrato-glandu- hirsulosis, caule erecto tereti, foliis ovatis pubescentibus.
- H. Calyx serrated with glands: stems cylindrical, upright: leaves egg-shaped, somewhat downy.

238 POLYADEL. POLYAND. Hypericum.

- HAIRY ST. JOHN'S WORT. Thickets, hedges, and woods Thickets near-Oxton Tollbar; Eperstone and Oxton Woods; Westhorpe Dumble, near Southwell. P. June, July.
- pulehrum. H. floribus trigynis, calycibus serrato-glandulosis, caule tereti, foliis amplexicaulibus cordatis glabris.
 - H. Calyx serrated with glands: stem cylindrical: leaves embracing the stem, heart-shaped, smooth.
 - SMALL UPRIGHT ST. JOHN'S WORT. Hedges, and heaths, in exposed sunny situations. Westhorpe Dumble, near Southwell; Stapleford and Langford Moors; Barnby Lane, amongst gorze bashes; and between Balderton and Coddington. P. July.



Classis XIX.

SYNGENESIA.

Antheræ in tubum connatæ. Flores compositi.

POLYGAMIA ÆQUALIS.

Flosculi omnes hermaphroditici, sertiles.

- * Semiflosculosi Tournefortii; corollulis ligulatis omnibus.
 - 1. All the Florets strap-shaped.
- HYPOCHÆRIS. Receptaculum paleaceum. Pappus plumosus. Cal. subimbricatus.
- HYPOCHÆRIS. Receptacle chaffy. Down somewhat feathered. Cal. tiled.
- CICHORIUM. Recept. subpaleaceum. Pappus paleaceus, semine bievior. Cal. calyculatus.
- CICHORIUM. Receptacle somewhat chaff v. Down chaff like. Cal double.
- CREPIS. Recept. hispidiusculum. Pappus simplex, substipatatus. Cal. calyculatus, squamis decidus, demum torulosus.
- CREPIS. Receptacle naked. Down hair-like. Cal. double, with scales of different shapes.

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- HIERACIUM. Recept., nudiusculum, punctatum. Pappus simplex, sessilis. Cal. imbricatus, ovatus.
- HIERACIUM. Receptacle naked. Down hair-like; sitting. Cal. tiled; egg-shaped.
- HEDYPNOIS. Recept. nudum, punctatum. Papfus plumosus, sessilis, inæqualis. Cal. imbricatus, calyculatus.
- HEDYPNOIS. Receptacle naked, dotted. Down feathered, sitting, unequal. Cal. tiled, double.
- PICRIS. Recept. nudum Pappus plumosus. Semina transversim sulcata Cal. duplicatus; interior æqualis; exterior laxus.
- PICRIS. Receptacle naked. Down feathered; on a pedicle. Cal. double.
- TRAGOPOGON. Recept. nudum. Pappus stipitatus, plumosus. Cal. simplex, polyphyllus.
- TRAGOPOGON. Receptacle naked. Down feathered; on a pedicle. Cal. simple.
- LEONTODON. Recept. nudum. Pappus stipitatus, simplex. Cal. imbricatus, sqamis taxiusculis.
- LEONTODON. Receptacle naked. Down on a pedicle Cal. tiled; scales flexible.
- LACTUCA. Recept. nudum. Pappus stipitatus, simplex. Cal. imbricatus, cylindraceus, margine membranaceo.
- IACTUCA. Receptacle naked. Down hair-like; on a pedicle. Cal. tilea; scales skinny at the edges.
- PRENANTHES. Recept. nuchm . Pappus sub-

SYNGENESIA. POLYGAM. ÆQUALIS. 241

sessilis, simplex. Cal. calyculatus. Flosculi simplici serie.

- PRENANTHES. Receptacle naked. Down hair-like. Cal. double; containing about 5 florets.
- SONCHUS. Recept. nudum. Pappus sessilis, simplex. Cal. imbricatus, ventricosus.
- SONCHUS. Receptacle naked. Down hair-like; sitting. Cal. tiled; bellying (at the base.)
- LAPSANA: Recept. nudum. Pappus nullus. Cal. calyculatus; foliolis interioribus æqualibus, canaliculatis.
- LAPSANA. Receptacle naked. Down none. Cal. double.
- * * Capitati. Corollulæ omnes tubulosæ, apice divaricato-putulæ.

2 Flowers in globular heads.

- CARLINA Cal. ventricosus; squamis exterioribus spinosis; interioribus coloratis scariosis radiantibus. Recept. palaceum. Pappus plumosus.
- CARLINA. Cal. radiate. Rays coloured.
- ARCTIUM. Cal. globosus; squamis apice hamatis inflexis.
- ARCTIUM. Cal. scales bent inwards at the points, and hooked.
- CARDUUS. Cal. ventricosus; imbricatus; squamis spinosis. Recept. pilosum. Pappus deciduus.
- CARDUUS. Cal. with thorny scales; bellying. Recept. hairy.
- ONOPORDUM. Cal. ventricosus; squamis pa-

242 SYNGENESIA. POLYGAM. SUPERFLUA.

tentibus, spinosis. Recept. favosum, subpaleaceum

- ONOPORDUM. Cal. with thorny scales: bellying. Recept. like a honey-comb.
- SERRATULA. Cal. subcylindricus, imbricatus; squamis inermibus. Pappus persistens.
- SERRATULA. Cal. nearly cylindrical; tiled: scales rather acute, but not thorn-like.
- * * * Discoidei. Corollulæ omnes tubulosæ, erecto paralleli, apice planiusculi, densi.

3 Florets all tubular.

- EUPATORIUM. Recept. nudum. Pappus scaber. Cal. imbricatus, oblongus. Stylus semibifidus, exsertus.
- EUPATORIUM. Recept. naked. Down feathered. Cal. tiled. Pistil very long.
- BIDENS. Recept. paleaceum. Pappus retrorsum scaber. Cal. polyphyllus. Cor. subinde radiata.
- BIDENS. Recept. chaffy. Down awn-like. Cal.

POLYGAMIA SUPERFLUA.

- Flosculi disci hermaphroditici; radii fæminii; omnes fertiles.
 - * Discoidei. Corollulæ radii obsoletæ.

 1 Florets all tubular.
- TANACETUM. Recept nudum. Sem. coronata. Cal. imbricatus, hemisphæricus. Flosc. radii trifidi, obsoleti, interdum nulli

SYNGENES. POLYGAM. SUPERFLUA. 243

- TANACETUM. Recept. naked. Down only a sort of border. Bloss. of the circumference 3 cleft.
- CONYZA. Recept. nudum. Pappus scaber. Cal. imbricatus, subrotundus. Flosc. radii trifidi.
- CONYZA. Recept. naked. Down hair-like. Bloss. of the circumference 3-cleft.
- GNAPHALIUM. Recept. nudum. Pappus scaber aut plumosus. Cal. imbricatus squamis scariosis coloratis. Flosc. radii subulati.
- GNAPHALIUM. Recept. naked. Down feathered, or hair-like. Cal. with skinny concave scales.
- ARTEMISIA. Recept. nudum, aut villosum. Pappus nullus. Cal. imbricatus squamis rotundatis conniventibus. Flosc. radii subulati, integerrimi:
- ARTEMISIA. Recept. almost naked. Down none. Florets in the circumference, without a petal.
 - * * Radiati. Corollulæ radii ligulatæ.

2 Flowers radiate.

- BELLIS. Recept. nudum, conicum. Pappus nullus. Cal. hemisphæricus, squamis æqualibus. Sem. obovata.
- BELLIS. Recept. naked. Down none. Cal. simple, with equal scales.
- MATRICARIA. Recept. nudum, cylindraceoconicum. Pappus nullus. Cal. planiusculus, imbricatus, squamis margine scariosis.
- MATRICARIA. Recept. naked. Down none... Cal. tiled; scales acute.

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- CHRYSANTHEMUM. Recept. nudum. Pappus nullus. Cal. hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.
- CHRYSANTHEMUM. Recept. naked. Down none. Cal. the inner scales membranaceous.
- PYRETHRUM. Recept. nudum. Pappus marginatus. Cal. hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.
- PYRETHRUM. Recept. naked. Seeds crowned with a membranaceous margin. Cal. hemispherical, imbricated with sharpish scales, bordered with a membrane.
- INULA. Recept. nudum. Pappus simplex. Cal. imbricatus. Cor. radii numerosissimæ, lineares. Antheræ basi bisetæ.
- INULA. Recept. naked. Down hair-like. Anthers with 2 bristles at the base.
- ERIGERON. Recept. nudum. Pappus simplex. Cal. imbricatus. Cor. radii lineares, angustissimæ numerosæ.
- ERIGERON. Recept. naked. Down hair-like. Bloss. in the circumference very slender.
- SOLIDAGO. Recept. nudum, scrobiculatum. Pappus simplex. Cal. imbricatus, squamis conniventibus. Flosc. radii circiter 5.
- SOLIDAGO Recept. naked. Down hair-like. Bloss. of the circumference about 6; remote.
- SENECIO. Recept. nudum. Pappus simplex: Cal. cylindricus, polyphyllus, æqualis, calyculatus, squamis apice sphacelatis.

SYNGENES. POLYGAM. ÆQUALIS. 245

- SENECIO. Recept. naked. Down hair-like. Cal. with the scales dead at the ends.
- TUSSILAGO. Recept. nudum. Pappus simplex. Cal. simplex, polyphyllus, æqualis, submembranaceus, basi ventricosus.
- TUSSILAGO. Recept. naked. Down hair-like. Cal. scales somewhat membranaceous.
- ANTHEMIS. Recept. paleaceum. Pappus submarginatus. Cal. hemisphæricus, squamis subæqualibus. Flosc. radii plures quam 5, oblongi.
- ANTHEMIS. Recept. chaffy. Down none. Cal. hemispherical.
- ACHILLEA. Recept. paleaceum. Pappus nullus. Cal. ovatus, imbricatus, inæqualis. Flosc. radii 5-ad 10, obcordato-subrotundi.
- ACHILLEA. Recept. chaffy. Down none. Cal. oblong, strap-shaped. Florets about 5.

POLYGAMIA FRUSTRANEA.

- Flosculi disci hermaphroditici; radii neutri, steriles.
- CENTAUREA. Recept. setosum. Pappus simplex. Cor. radii infundibuliformes, longiores, irregulares.
- CENTAUREA. Recept. bristly. Down hair-like. Bloss. of the circumference tubular.

246 SYNGEN. POLYG. ÆQUAL. Tragopogon.

XIX SYNGENESIA.

r POLYGAMIA ÆQUALIS.

Semiflosculosi. Flosculi ligulati.

TRAGOPOGON. Smith. 812. With 672.

Receptaculum nudum. Cal. simplex, polyphyllus. Pappus stipitatus, plumosus.

Receptacle naked. Calyx simple. Down feathered.

- praten- T. calycibus corollarum radium subæquanse. tibus, foliis integris carinatis acuminatis; basi dilatatis, pedunculo tereti.
 - T. Calyx as long as the rays of the blossom: leaves entire, quite straight: fruit-stalk cylindrical.
 - YELLO W-GOAT'S-BEARD. Meadows and pastures. Newark, and Averham Meadows, plentifully; Southwell; Mansfield; and Nottingham. B. June.

PICRIS. Smith. 814. With. 673.

Recept. nudum. Cal. duplicatus; interior æqualis; exterior laxus. Pappus plumosus. Semina transversim sulcata.

Receptacle naked. Calyx double. Down feathered. Seeds with transvere furrows.

echioides. P. calyce exteriori pentaphyllo maximo aculeato, pappo stipitato, foliis repandis.

- P. Outer calyx of 5 leaves, larger than-the inner; the inner awned.
- BRISTLY OX-TONGUE. Borders of fields. Hedgebanks by the road, and on the borders of cornfields on Beacon Hill, Newark; Southwell. A. June, July.

SYNGEN. POLYG. ÆQUALIS. Sonchus. 247

- SONCHUS. Smith. 815. With. 674. Recept. nudum Cal. impricatus, ventricosus. Pappus simplex, sessilis.
- Recept. naked. Calyx tiled, bellying. Down hair-like.
- S. pedunculis calycibusque hispidis subum- palusbellatis, foliis runcinatis basi sagittatis tris. margine scabris.
- S. Fruit-stalks and calyxes rough with hair, in a sort of umbel: leaves notched, arrow-shaped at the base.
- TALL MARSH SOW-THISTLE. Watery places, and banks of rivers; not common. Edingley Moor. P. July, August.
- S. pedunculis calycibusque hispidis subum- arvenbellatis, foliis runcinatis denticulatis basi sis. cordatis, radice repente.
- S. Fruit-stalks and calyxes rough with hair, in a sort of umbel: leaves notched, heart-shaped at the base.
- CORN SOW-THISTLE. Cornfields and dirch banks. On Beacon Hill, Newark. P. August.
- S. pedunculis tomentosis, calycibus lævibus olerafoliis runcinatis dentatis. ceus.
- S. Fruit-stalks cottony: calyxes smooth.
- common sow-THISTLE. Cultivated ground, especially in a rich soil, dung-hills, and hedges; very common.

 A. July---September.
- LACTUCA. Smith. 819. With. 676.
- Recept. nudum. Cal. imbricatus, cylindraceus, margine membranaceo. Pappus simplex, stipitatus.

248 SYNGEN. POLYG. ÆQUALIS. Prenanthes.

- Receptacle naked. Calyx tiled, cylindrical, the scales membranaceous at the edge. Down hair-like, on a pedicle.
- virosa. L. foliis horizontalibus denticulatis carina aculeatis.
 - L. All the leaves horizontal, toothed; their mid-rib prickly on the back.
 - STRONG-SCENTED LETTUCE. Ditch banks, borders of fields. In a hedge near the Greet Bridge, Southwell; on a bank between Coddington and the Shire Ditch, toward Beckingham; by the side of the road from Blyth to Bawtry. B. August, September.
- saligna. L. foliis hastato-linearibus pinnatifidisque sessilibus carina aculeatis.
 - E. Leaves halberd-strap-shaped, sitting; midrib prickly on the back.
 - LEAST LETTUCE. Ditch banks and pastures in a chalky soil; rare Near Bingham, before you enter the town from Battesford, on the right hand bank.

 Rev. G. CRABBE.

 B. August.
 - PRENANTHES. Smith. 821. With 678.
 - Recept. nudum. Cal. calyculatus. Pappus simplex, subsessilis, Flosculi simplici serie.
 - Receptacle naked. Calyx double. Down hairlike, nearly sitting. Florets in a single row.
- muralis. P. flosculis quinis, foliis runcinatis.
 - P. Florets 5: leaves notched.
 - IVY-LEAVED LETTUCE. Walls, shady woods and thickets Halam and Edingley Hills; Eperstone: Park; Basford Church; Wet Lane between Papplewick and Hucknall P. July.
 - LEONTODON. Smith. 822. With. 679.

SYNGEN. POLYG. ÆQUALIS. Hedypnois. 249

- Recept. nudum. Cal. imbricatus, squamis laxiusculis. Pappus simplex, stipitatus.
- Receptacle naked. Calyx tiled; the inner scales parallel, equal. Down hair-like.
- L. squamis calycinis exterioribus reflexis, fo- Taraxliis runcinatis dentatis glabris. acum.
- L. Outer scales of the calyx'entire, reflected: leaves smooth, notched and acutely toothed.
- COMMON DANDELION. Meadows, pastures, road sides, ditch banks; common. P. April-July.
- L. officinale. With.

HEDYPNOIS. Smith. 823.

- Recept. nudum, punctatum. Cal. imbricatus, calyculatis. Rappus plumosus, sessilis, inæqualis.
- Receptacle naked, dotted. Calyx tiled, double. Down feathered, sitting, unequal.
- H. scapis unifloris, foliis dentatis, scabris, hispida. flosculis ore pilosis apice glandulosis.

hirta.

- H. All the scales of the calyx upright: leaves toothed, very entire, hispid: bristle-like, hairs forked.
- Leontodon. hispidum. LINN. With. 681.
- ROUGH HEDYPNOIS. Meadows and pastures. New-ark, and Averham Meadows; Southwell. P. July.
- H. scapis unifloris, foliis dentatis scabris, calyce glabriusculo, seminibus exterioribus pappo destitutis.
- H. All the scales of the calyx upright: leaves toothed, hairy; hairs undivided; outer row of seeds down-less.

250 SYNGEN. POLYG. ÆQUALIS. Hieracium.

Leontodon hirtum. LINN. With. 682.

autum- H. scapo ramoso, pedicellis squomosis, folinalis. is lanceolatis dentato-pinnatifidis glabriusculis.

H. Stem branched; fruit-stalks scaly; leaves spear-shaped, toothed, very entire, smooth; down mostly sitting.

Leontodon autumnale. LINN. With.

AUTUMNAL HEDYPNOIS. Meadows and pastures; common. P. August..

HIERACIUM. Smith. 827. With. 682.

Recept. nudiusculum, punctatum. Cal. imbricatus, ovatus. Pappus simplex, sessilis.

Recept. generally naked. Calyx tiled, eggshaped: sometimes double. Down mostly sitting, hair-like; rarely feathered.

* Scapo nudo unifloro.

1 Stalk leafless, 1 flowered: down simple.

Pilosella. H. foliis ellipticis integerrimis subtus tomentosis, stolonibus repentibus, scapo unifloro nudo.

H. Leaves very entire, egg-shaped, cottony underneath; suckers creeping.

MOUSE-EAR HAWKWEED. Very dry meadows, pastures, and walls; common. Newark; Southwell; Mansfield.

* * Caule folioso.

2. Stem leafy. Down sitting.

Murorum. H. caule paniculato, foliis radicalibus ovatis dentatis majoribus.

H. Stem branched: root leaves egg-shaped, toothed: stem leaf smaller.

SYNGEN. POLYG. ÆQUALIS. Crepis. 251

- WALL HAWKWEED. GOLDEN LUNGWORT. Woods, old walls, shady banks, and balks of corn-fields. Southwell Minster; Rocks in Nottingham Park. P July.
- H. caule erecto multifloro, foliis ovato-lan- sabaudum. ceolatis dentato-serratis subamplexicaulibus subtus scabris.
 - H. Stem upright, many flowered: leaves eggspear-shaped, toothed, half embracing the stem.
 - SHRUBBY BROAD-LEAVED HAWKWEED.
 Woods and hedges. Edingley Hill; Halam Hill;
 Warsop Woods. P. August, Sept.
 - H. caule erecto subumbellato, foliis linearibus umbelsubdentatis sparsis. latum.
 - H. Leaves strap-shaped, somewhat toothed, scattered: flowers in a sort of umbel.
 - NARROW-LEAVED HAWKWEED. Hedges and dry shady places, amongst gorse. Stapleford and Langford Moors; in Mr. Pocklington's plantation, Barnby Lane; between Coddington and Barnby; and near Balderton P. August, Sept.
 - CREPIS. Smith. 347. With. 688.
 - Recept, hispidiusculum. Cal, calyculatus, squamis deciduis demum torulosus. Pappus simplex, substipitatus.
 - Recept. naked. Calyx double, the outer one deciduous. Down hair-like, sometimes standing on a pedicle.
 - C. foliis radicalibus runcinatis; caulinis am-tectorum. plexicaulibus lanceolatis dentatis, caule glabro.
 - C. Leaves spear-shaped, notched; sitting, smooth; the lower ones toothed.

252 SYNGEN. POLYG. ÆQUAL Hypochæris.

- SMOOTH HAWK'S-BEARD. SMOOTH SUCCO-RY HAWKWEED. Meadows, pastures, walls, roofs; road sides. Newark Meadows; Suthwell. A. June -- Sept.
- biennis. C. soliis runcinato-pinnatissidis scabris: lobis, antice dentatis, calyce muricato subtomentoso.
 - *C. Leaves notched, with winged clefts, rough toothed within the base: calyx bristly.
 - ROUGH HAWK'S-BEAPD Meadows and pastures in a calcareous soil, Halam Hill; Oxton Hill.

 B. June, July.
 - HYPOCHÆRIS. Smith 840. With. 691. Recept. paleaceum. Cal. subimbricatus. Pappus plumosus.
 - Recept. chafly Calyx-somewhat tiled. Down on a pedicle; feathered.
- glabra. H. glabriuscula, calveibus oblongis imbricatis, caulibus ramosis subfoliosis, foliis dentato sinuatis.
 - H. Smooth: stem branched, leafless: leaves toothed and indented: calyx oblong, tiled.
 - SMOOTH CAT'S EAR. Sandy and gravelly soils; rare. Oxton Forest.

 A. June---August.
- radica- H. foliis runcinatis obtusis scabris, caudibus ta. rumosis nudis lævibus, pedunculis squmosis.
 - H. Stem branched, naked, even: leaves notched, blunt, rough: fruit-stalks scaly.
 - LONG-ROOTED CAT'S-EAR. Meadows and pastures; frequent. Nevark; Southwell. P. June--- Aug.

- LAPSANA. Smith. 842. With. 693.
- Recept. nudum. Cal. calyculatus; foliolis interioribus æqualibus, canaliculatis, Semina mutica.
- Recept. naked. Calyx double, all the inner scales channelled.
- L. calycibus fructus angulatis, caule panicu-commulato, pedunculis filiformibus. nis.
- L. Calyxes after flowering, angular: fruitstalks slender, very much branched.
- NIPPLE-WORT. Hedges, shady places, cultivated ground, and amongst rubbish; very common.

 A. June, July.
- CICHORIUM. Smith. 843. With. 693.
- Recept. subpaleaceum. Cal. calyculatus. Pappus paleaceus, semine brevior.
- Recept. somewhat chaffy. Calyx double. Down about 5 teeth, indistinctly hairy.
- C. Floribus geminis sessilibus, foliis runcina- Intybus, tis.
- C. Flowers in pairs, sitting: leaves notched.
- WILD SUCCORY. Borders of cornfields. Fields at Normanton, near Southwell; Road side between Norwood and Kirklington. P. July, August.
- * * CAPITATI. Flosculi tubulosi, apice divaricato-patuli.
- ARCTIUM. Smith. 844. With. 694.
- Cal. globosus; squamis apice hamatis inflexis.

254 SYNGEN. POLYG. ÆQUALIS. Carduus.

- Caly x globular: scales with hooked points, bent inwards.
- Lappa. A. foliis cordatis inermibus petiolatis.
 - A. Leaves heart-shaped, without thorns, on leaf-stalks.
 - BURDOCK. CLOT-BUR. Road sides, rubbish, and ditch banks; common. B. July, August.
 - CARDUUS. Smith. 847. With. 697.
 - Cal. ventricosus, imbricatus: squamis spinosis. Recept. pilosum. Pappus deciduus.
 - Calyx bellying, tiled; scales thorny: Receptacle hairy.
 - * Foliis decurrentibus.

1. Leaves decurrent.

- latus. laciniis divaricatis, calycibus ovatis villosis, caule piloso.
 - C: Leaves with winged clefts, hispid: segments straddling: calyxes egg-shaped, thorny, woolly: stem hairy.
 - SPEAR THISTLE. Rubbish, road sides, and waste places; very common, B. June---Sept.
 - nutans. C. foliis interrupte decurrentibus spinosis, floribus cernuis, squamis calycinis lanceolatis superne patentibus.
 - C. Leaves decurrent half-way down towards the next below; thorny: fruit-stalks crooked: calyx scales expanding upwards.
 - MUSK THISTLE. Pastures in a calcareous seil, and road sides in a sandy or gravelly soil. Newark; Southwell.

 A. July, August.

SYNGEN. POLYG. ÆQUALIS. Carduus. 25

- C. foliis decurrentibus sinuatis spinosis, ca-acan-lycibus globosis subpedunculatis; squamis thoides. Imearibus recurvatis.
- C. Leaves indented, thorny at the edge: cályxes on fruit--stalks, solitary, upright, woolly.
- CURLED or WFLTED THISTLE Ditch banks, on rubbish, borders of coinfields. Newark; Southwell; Nottingham
- C. foliis decurrentibus pinnatifidis dentatis palusspinosis scabris, calycibus ovatis aggregatis tris. spinulosis, pappo plumoso.
- C. Leaves toothed, thorny at the edge: flowers in bunches, upright: fruit-stalks without thorns.
- MARSH THISTLE. Marshy meadows, moist shady places, and wet pastures; frequent. B. July, Aug.
 - * * Foliis sessilibus.

2 Leaves sitting.

- C. foliis sessilibus pinnatifidis spinosis, caule arvenpaniculato, calycibus ovatis spinulosis, pap- sis. po plumoso.
- C. Leaves sitting, with winged clefts, thorny at the edge; calyxes egg-shaped, thorny; down feathered.
- Serratula arvensis. With. 696.
- CREEPING THISTLE. WAY THISTLE. Cornfiedls and road sides; very common. P. July.
- C. foliis amplexicaulibus repandis spinosis; mariaradicalibus pinnatifidis, sqamis calycinis foliaceis refractis margine aculeatis.

256 SYNGEN. POLYG. ÆQUAL. Onopordum.

- C. Leaves embracing the stem, halberd-shaped and wing-cleft; thorny: calyx without any leaves near it: thorns channelled, and set with other little thorns.
- MILK THISTLE. Ditch banks, road sides, borders of cornfields, and on rubbish. Newark; Blidworth.

 A. August.
- rus. nosis scabris: laciniis alternis erectis, calycibus globosis villosis.
 - C. Leaves with winged clefts pointing 2 ways, every other segment upright: calyxes globular, woolly.
 - WOOLLY-HEADED THISTLE. Both in flat and mountainous meadows and pastures. Outerlies at Normanton; Kirklington; Road side beyond Debdon Hill Tollbar; (aunton; by the side of the Road from Southwell to Thurgarton, on the High Cross Hill. B. Aug.
- acaulis. C. acaulis, calyce glabro.
 - C. Stemless: calyx smooth.
 - DWARF THISTEE. Mountainous and dry pastures, especially in a calcareous soil. Sherwood Forest, plentifully; Road on the Forest between Budby and Ollerton; on a Common between Darlton and Great Markham, near Tuxford.

 P. July, August.
 - ONOPORDUM. Smith. 856. With. 704.
 - Cal. ventricosus; squamis patentibus, spinosis. Recept. favosum, subpaleaceum.
 - Recept: like a honeycomb. Calyx bellying. Scales sharp-pointed.
- Acan- O. calycibus squarrosis: spinis subulatis, fothium. liis ovato-oblongis sinuatis utrinque lanatis.

SYNGEN. POLYG. ÆQUALIS. Carlina. 257

- O Calyx scales expanding, their points standing out: leaves egg-oblong, indented.
- COTTON THISTLE. On rubbish and road sides; common.

 B. July.
- CARLINA. Smith. 857. With. 704.
- Cal. ventricosus; squamis exterioribus spinosis; interioribus coloratis, scariosis, radiantibus. Recept. paleaceum. Pappus plumosus.
- Calyx radiated; the scales next the blossoms long coloured.
- C. caule multifloro corymboso, floribus ter-vulgaris. minalibus, squamis calycinis exterioribus pinnatifidis; interioribus albidis.
- C. Stem with many flowers in a corymbus: flowers terminating: rays of the calyx yellow-white.
- COMMON CARLINE. Dry meadows, pastures, commons, and hedge banks. Sherwood Forest; about Mansfield; on the Forest between Rufford and Thoresby. B. June.
- * * * DISCOIDEI. Flosculi tubulosi, erecto paralleli, apice planiusculi.
- BIDENS. Smith. 858. With. 705.
- Recept. paleaceum. Pappus aristis retrorsum scabris. Cal. polyphyllus. Cor. subinde radiata.
- Recept. chaffy. Down rough with straight awns. Calyx tited.

258 SYNGEN. POLYG. ÆQUAL. Eupatorium.

- tripar- B. foliis trifidis, calycibus basi foliosis, semituta. num aristis erectis subternis.
 - B. Leaves 3-cleft: seeds upright.
 - TRIFID BUR MARYGOLD. Marshy and watery places, and sides of ponds. Sides of the two Ponds in Appleton Closes, Newark; ditches in Collingham Meadows.

 A. August, Sept.
- cernua. B. foliis lanceolatis serratis, floribus cernuis basi foliosis, seminum aristis erectis subquaternis.
 - B. Leaves spear-shaped, embracing the stem: flowers on crooked fruit-stalks: seeds upright.
 - NODDING BUR MARIGOLD. Wet ditches, and marshy places; not very common. Sides of a muddy Pond, near the Fleet, at North Collingham; near where B. tripartita grows, but not so plentiful; Edingley Moors; Farnsfield Carr. A. September.
 - EUPATORIUM. Smith. 859. With. 706.
 - Recept. nudum. Pappus scaber. Cal. imbricatus, oblongus. Stylus semibifidus, exsertus.
 - Recept. naked. Down feathered. Calyx oblong, tiled. Style long, cloven half-way down.
- canna. E. foliis digitatis.
- binum. E. Calyx 5 flowered: leaves with finger-like divisions.
 - HEMP AGRIMONY. Banks of rivers and brooks.

 Park ditches at Sonthwell; in brooks at Endby, near
 Ollerton; ditches between Ratcliff and Nottingham.

 P. July, August.

2 POLYGAMIA SUPERFLUA.

*DISCOIDEI.

TANACETUM. Smith. 862. With. 708.

Recept. nudum. Sem. coronata. Cal. imbricatus, hemisphæricus. Flosculi radii trifidi, obsoleti, interdum nulli.

Recept. naked. Down none. Calyx hemispherical, tiled. Florets of the circumference 3-cleft, narrow-strap shaped; sometimes wanting.

T. foliis bipinnatifidis inciso-serratis nudis. vulgare.

T. Leaves doubly winged, cut, serrated.

common Tansy. Mountainous meadows and pastures. Banks of the disches, beyond Newark Bridge, on the Kelham Road; by the road side between the 2d and 3d mile stones, beyond the bleach yard on the Lincoln Road from Newark, abundantly. P. July, Aug.

ARTEMISIA. Smith. 863. With. 708.

Recept. nudum, aut villosum. Sem. mutica. Cal. imbricatus, squamis rotundatis, conniventibus. Flosc. radii subulati, integerrimi.

Receptable either slightly hairy, or naked. Down none. Calyx tiled; the scales roundish, closing. Florets radiate, none.

A. folis multipartitis sericeo-incanis, flori- Absinbus hemisphæricis pendulis, receptaculo thrum. piloso:

260 SYNGEN. POLYG. SUPERF. Gnaphalium.

- A. Leaves compound, many-cleft: flowers somewhat globular, pendent: receptacle woolly.
- COMMON WORMWOOD. Road sides, stony places, and among rubbish; common. Bowbridge Lane, Newark; between Win horpe and Langford; and Collingham, plentifully.

 P. August.
- vulgaris. A. foliis pinnatifidis planis incisis: subtus toméntosis, racemis simplicibus, floribus ovatis, receptaculo nudo.
 - A. Leaves wing-cleft, flat, cut, cottony underneath: bunches simple, bending: floreis of the circumference 5.
 - MUGWORT. Borders of fields, ditch banks, and on rabbish; common: Newark; Southwell; Nottingham. P. August.
 - GNAPHALIUM: Smith. 867. With. 711.
 - Recept. nudum. Pappus scaber, aut plumosus. Cal. imbricatus, squamis scariosis coloratis. Flosc. radii subulati. Flosculi aliquot disci subinde abortivi.
 - Receptacle naked. Down hair-like, or feathered. Calyx tiled. Scales at the edge roundish, skinny, coloured.
- rectum. G. caule erecto paniculato multifloro, foliis lineari-lanceolatis supra denudatis.
 - G. Stem upright, terminating in a leafy compound spike: leaves strap-spear-shaped, almost naked on the upper side.
 - UPRIGHT WOOD CUDWEED. Pastures and woods in a sandy soil. In Earl Harrington's Plantation, at Blidworth; Bilsthorpe. P. August.
- uligino-G. caule ramosissimo diffuso, floribus consum. tertis terminalibus.

SYNGEN. POLYG. SUPERFL. Conyza. 261

- G. Stem branched, spreading: flowers crowded, terminating.
- MARSH CUDWEED. In watery places, especially where stagn: nt water has stood during the winter. New-ark; Southwell; Mansfield. A. August.
- G. caule erecto dichotomo, foliis lanceolatis, germacapitulis globosis multifloris lateralibus ter- nicum, minalibusque.
- G. Panicle forked: flowers roundish, axillary, hairy: leaves acute.
- COMMON CUDWEED. Barren meadows, pastures, and road sides. Newark; Southwell; Edingley Moor; Oxton Bottoms. A. July, August.
- CONYZA. Smith. 875. With. 717.
- Recept. nudum. Pappus scaber. Cal. imbricatus, subrotundus. Flosc. radii trifidi.
- Recept. naked. Down hair-like. Calyx tiled, roundish. Florets of the circumference 3-cleft.
- C. foliis ovato-lanceolatis pubescentibus, squarcaule herbaceo corymboso, squamis calyci- rosa. nis squarrosis foliaceis.
- C. Leaves spear-shaped, acute: stem herbaceous: flowers in corymbus: scales of the calyx with their points turned outwards.
- PLOWMAN'S SPIKENARD. Mountainous meadows and pastures, and road sides in a calcareous soll. On the Road half-way between Retford and Worksop; near Mr. Foljambe's House, at Osberton. B. July, Aug.

* * RADIATI.

ERIGERON. Smith. 876. With. 717.

262 SYNGEN. POLYG. SUPERFL. Tussilago.

- Recept. nudum. Pappus simplex. Cor. radii lineares, angustissimæ, numerosæ. Cal. imbricatus.
- Recept. naked. Down hair-like. Florets of the circumference strap-shaped, very narrow.
- acre. E. caule racemoso, pedunculis subunifloris, foliis lanceolato-lingulatis sessilibus.
 - E. Fruit-stalks alternate, with 1, 2, or 3 flowers.
 - BLUE FLEA-BANE. Very dry mendows and pastures in a calcarcous soil In a Close behind Mr. Montague's House, at Papulewick; Bulwell Lime Quarries; on Sparken Hill, near Worksop. B. July, August.
 - TUSSILAGO. Smith. 878. With. 719.
 - Recept. nudum. Pappus simplex. Cal. simplex, polyphyllus, æqualis, submembranaceus, basi ventricosus.
 - Recept. naked. Down hair-like. Calyx scales equal, as tall as the surface of the florets, somewhat membranaceous.
- Farfara. T. scapo unifloro squamoso, foliis cordatis angulatis denticulatis.
 - T Stalk with 1 flower; tiled: leaves somewhat heart-shaped, angular, finely toothed.
 - COLT'S-FOOT. Pastures and moistish places, in moist, stiff, clayey soil, and on limestone rubbish; common. Southwell; Newark. P. March, April.
- hybrida. T. thyrso oblongo, flosculis fæmineis plurimis; hermaphroditicis paucissimis, antheris discretis.
 - T. Panicle oblong: female flowers numerous, without blossoms.

SYNGEN. POLYG. SUPEREL. Senecis. 263

- LONGER-STALKED BUTTER-BUR. Moist meadows, and banks of ditches. Southwell Cotton Mill. P. April.
- T. thyrso ovato, flosculis omnibus fere her-Petasimaphroditicis syngenesiis. tes.
- T. Panicle egg-shaped: female florets few. LINN. Entirely wanting in our plants. WOODWARD.
- COMMON BUTTER-BUR. Moist meadows and pastures, and banks of rivers. Greet-Bridge, Southwell; Marshes at Mansfield. P. April.
- SENECIO. Smith. 881. With. 721.
- Recept. nudum. Pappus simplex. Cal. cylindricus, polyphyllus, æqualis, calyculatus, squamis apice sphacelatis.
- Recept. naked. Down hair like, long. Calyx conical, double; the scales as if dead at the ends.
 - * Floribus flosculosis.
 - 1 Florets all tubular.
- S. floribus radio destitutis sparsis, foliis pin-vulganato-sinuatis amplexicaulibus dentatis. ris.
- S. Leaves winged indented, embracing the stem: flowers scattered.
- common GROUNDSEL. SIMSON. Cultivated ground, rubbish, and road sides; very common.

 A. April---Sept.
 - * * Floribus radiatis, radio statim revoluto.
- 2 Strap-shaped florets in the circumference rolled back.

264 SYNGEN. POLYG. SUPERFL. Solidago.

- sylvati-S. radio revoluto, foliis pinnatifidis lobatis cus. denticulatis, calyculo brevissimo, caule erecto stricto corymboso
 - S. Leaves wing-cleft, finely toothed; stem branching into a corymbus; upright.
 - MOUNTAIN GROUNDSEL. Dry gravelly heaths, and sandy disch banks; not uncommon. Quonce-hill Close, at Newark; Oxton; Farnsfield. A. July.
 - * * * Floribus radiatis, radio patente; foliis punnatifidis.
 - 3 Strap-shaped florets in the circumference expanding: leaves wing-cleft.
- tenuifo S. radio patente, foliis pinnatifidis subrevoluhus tis subtus pallidiorabus pubescentibus, caule erecto villoso.
 - S. Leaves winged; segments strap-shaped; lower leaves on long leaf-stalks: flowers forming a corymbus: stem upright.
 - GROUNDSEL RAGWOR F. Woods and hedges. Halam and Oxton Hill. P. July, August.
- Jacobæa S. radio patente, foliis lyrato-bipinnatifidis divaricatis dentatis glabris caule erecto.
 - S. Leaves lyre-shaped, almost winged: segments finely jagged: stem upright.
 - COMMON RAGWOR f. Meadows, pastures, and road sides! very common. P. July, August.
 - cus. ratis serratis; inferioribus obovatis integris, seminibus glabris.
 - S. Leaves toothed, those at the root egg-shaped, those of the stem wing-cleft; the outer segment largest.

- MARSH RAGWORT. Ditches and watery places, and moist meadows. Edingley Moors; Farnsfield Carr; Oxton Stews. P. July, August.
- SOLIDAGO. Smith. 889. With. 727.
- Recept. scrobiculatum, nudum. Pappus simplex. Cal. imbricatus, squamis conniventibus. Flosculi radii circiter quinque.
- Recept. naked. Down hair-like. Florets of the circumference about 5. Calyx scales tiled, laid close.
- S. caule subflexuoso angulato, racemis pani-Virgauculatis erectis confertis. rea.
- S. Stem serpentine, branched: leaves mostly sitting: flowers in crowded panicles.
- COMMON GOLDEN ROD. Woods, hedges, heaths, copses. Banks between Coddington and Barnby.
 P. July---Sept.
- INULA. Smith. 890. With. 730.
- Recept. nudum. Pappus. simplex. Cal. imbricatus. Cor. radii numerossissimæ, lineares. Antheræ basi bisetæ.
- Receptacle naked. Down hair-like. Anthers with 2 bristles at the base.
- I. foliis amplexicaulibus cordato-oblongis to- dysenmentosis, caule villoso paniculato, squamis terica. calycinis setaceis hirtis.
- I. Leaves embracing the stem, heart-oblong: stem woolly, forming a kind of panicle: scales of the calyx bristle-shaped.
- COMMON FLEABANE. Moist meadows and pastures, watery places, sides of brooks and rivulets. Banks of

266 SYNGEN. POLYG. SUPERFLUA. Bellis.

the ditches beyond Newark Bridge, on the Kelham Road; Southwell; Nottingham; Mansfield. P. Aug.

BELLIS. Smith. 897. With. 733.

Recept. nudum, conicum. Pappus nullus. Cal. hemisphæricus, squamis æqualibus. Sem. obovata.

Recept. naked, conical. Down none. Calyx hemispherical, with equal scales. Seed inversely egg-shaped.

perennis. B. scapo nudo, radice repente.

B. Stalk naked.

COMMON DAISY. Meadows and pastures, very common. P. March--Sept.

CHRYSANTHEMUM. Smith. 898. With. 733.

Recept. nudum. Pappus nullus. Cal. hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.

Recept. naked. Down none, but a kind of border. Calyx hemispherical, tiled; scales membranaceous at the edge.

* Radio albo.

1. Florets of the circumference white.

Leucan-C. foliis amplexicaulibus oblongis obtusis themum. incisis basi pinnatifidis; radicalibus obovatis petiolatis.

C. Leaves embracing the stem, oblong; serrated upwards, toothed at the base.

GREAT WHITE OX-EYE. Dry Meadows, pastures, walls. Newark; Southwell. P. June, July.

SYNGEN. POLYG. SUPER. Pyrethrum, 267

* * Radio luteo.

2 Flowers entirely yellow.

- C. foliis amplexicaulibus glaucis superne la-segetum. ciniatis basi dentatis.
- C. Leaves embracing the stem, jagged upwards, tooth-serrated towards the base.
- YELLOW OX-EYE. CORN MARIGOLD. Cornfields; very common. A. June---August.
- PYRETHRUM. Smith. 900. With. 735.
- Recept. nudum. Pappus marginatus. Cal. hemisphæricus, imbricatus, squamis acutiusculis; margine scariosis.
- Recept. naked. Down none. Calyx hemispherical, tiled; scales rather pointed, skinny at the edge.
- P. foliis petiolatis compositis planis: foliolis Partheovatis incisis, pedunculis ramosis corymbo- nium. sis, caule erecto.
- P, Leaves compound, flat; leafits egg-shaped, cut: fruit-stalks branched.
- Matricaria parthenium. With. 735.
- COMMON FEVER-FEW. Waste places, bedges, and walls On the right hand side the road after your pass by the Church at Eakring. Upton Street on banks; a bank near Mr. Gilbert's house, Little Garlion, near Muskham.

 P. June, July.
- P. foliis sessilibus pinnatis capillaceo-multi- inodofidis, caule ramoso patulo, corona seminum rumintegra.
- P. Leaves winged, many-cleft: stem branched, spreading.

SYNGEN. POLYG. SUPERFL. Anthemis. 268

- Chrysanthemum inodorum. With. 734.
- CORN FEVER-FEW. SCENTLESS MAY-WEED. Cornfields and road sides. Amongst corn in Beaconfields, Newark; by the road side near the one mile stone between Southwell and Upton. A. Aug. Sept.
- ANTHEMIS. Smith. 903. With. 737.
- Recept. paleaceum. Pappus submarginatus. Cal. hemisphæricus, squamis subæqualibus. Flosculi radii plures quam quinque, oblongi.
- Recept. chaffy. Down. none. Calyx hemispherical, scales nearly equal. Florets of the circumference more than 5.
- Cotula. A. receptaculo conico; paleis setaceis seminibus muticis, foliis bipinnatifidis glabriusculis.
 - A. Receptacles conical: chaff bristle shaped: seeds naked.
 - STINKING MAY-WEED, or CHAMOMILE. Cornfields, road sides, and borders of dunghills. Newark; Southwell; Mansfield.

 A. June, July.
 - ACHILLEA. Smith: 908. With. 741.
 - Recept paleaceum. Pappus nullus. Cal. ovatus, imbricatus, inæqualis. Flosculi radii quinque ad decem, obcordato subrotundi.
 - Recept. chaffy. Down none. Calyx eggshaped, tiled: strap-shaped florets from 5 to 10.
- Ptarmi- A. foliis lanceolatis acuminatis argute serra-
 - A. Leaves strap-spear-shaped, embracing the stem, finely serrated.

SYNGEN, POLYG. FRUSTRA. Centaurea, 269

- SNEEZE-WORT. YARROW. GOOSE-TONGUE.
 Moist meadows and shady places, and balks of cornfields. Edingley Moors; Stapleford and Langford Moors.
 P. July, August.
- A. foliis bipinnatifidis pilosis: laciniis lineari- Millebus dentatis mucronatis, caulibus sulcatis. folium.
- A. Leaves doubly winged, segments of the wings strap-shaped, toothed.
 - COMMON YARROW. MILFOIL. Meadows, pastures, and road sides; very common. P. June---Aug.

III POLYGAM. FRUSTRANEA.

CENTAUREA. Smith. 909. With. 742.

Recept. setosum. Pappus simplex. Cor. radii infundibulitormes, longiores, irregulares.

Recept. bristly. Down either feathered or hair-like. Florets of the circumference funnel-shaped, irregular, longer than the others.

* Cal. squamis apice ciliatis

1 Scales of the calyx servated with fringe.

C. squamis calycinis ovatis: ciliis capillari- nigra: bus erectis, foliis inferioribus lyrato-angulatis superioribus ovatis.

C. Culyx scales egg-shaped, fringe hair like, upright lower leaves lyre-shaped, angular; upper onesegg-strap-spear-shaped, and nearly entire.

BLACK, or LESSER KNAPWEED. Meadows and pastures; very common. Newark; Southwell P June---August.

A a 3.

270 SYNGEN. POLYG. FRUSTRA. Centaurea.

- Cyanus. C. squamis calycinis serratis, foliis linearibus integerrimis; inferioribus dentatis.
 - C. Calyx scales serrated: leaves strap-shaped, very entire; the lower ones toothed.
 - CORN BLUE-BOTTLE. Cornfields; common. Beacon-fields, Newark; Southwell; Mansfield.

A. July, Aug.

- Scabiosa. C. squamis calveinis ciliatis ovatis, foliis pinnatifidis: laciniis lanceolatis subdentatis pilosiusculis:
 - C. Calyx scales fringed: leaves wing-cleft; segments spear-shaped.
 - GREATER KNAPWEED. Borders of fields, and amongst corn; not uncommon. Beacon Hill, Newark; Halam; Farnsfield. P. July, August.

Classis XX.

GYNANDRIA.

Stamina pistillo, supra germen, inserta.

Stamens on the pistil.

DIANDRIA.

Stamina 2.

Stamens 2.

ORCHIS. Nectarium. corniculatum.

ORCHIS. Nectary ending in a spur.

SATYRIUM. Nectarium inflato-didymum:

SATYRIUM. Nectary ending in a purse.

OPHRYS. Nectarium subcarmatum, deflexum.

OPHRYS. Nectary somewhat keeled

SERAPIAS. Nectarium ovatum, gibbum, labio ovato.

SER PIAS. Nectary egg-shaped; bulging on the under side.

GYNANDRIA.

1 DIANDRIA.

ORCHIS. Smith. 918. With. 21.

Nectarium corniforme, pone florem.

Nectary like a horn, behind the flower. Blossom gaping.

* Bulbis indivisis.

1 Bulbs of the root undivided.

- bifolia. O. bulbis indivisis, nectarii labio lanceolato integerrimo: cornu longissimo, petalis lateralibus patentibus.
 - O. Lip of the Nectary spear-shaped; very entire: horn very long: petals expanding.
 - BUTTERFLY ORCHAS. Woods and thickers in a clayer soil; not uncommon Westhorpe, near Southwell; and in the following woods, Oxton. Kirklington, Win burn, Combes, Eperstone, Flintham, Ossington, Muskham, Wernham, and olwick. P. May, June.

B. Orchis bifolia. Smith. 918.

Var. 3. Leaves 2 or 3, spear-shaped.

Meadows and and pastures; not common. Southwell; and in the meadows leading to Oxton Wood; also closes between Winkburn and kirklington. P. June.

The Orchis bifolia, is not mentioned by Defring, who states that the Orchis barbata fædida. "Ray's Syn. "376, was found by him at the bottom of Clifton Hill, in April, and in the beginning of May, in Colwick Wood." This plant must unquestionably have been the Orchis bifolia; since neither Nottinghamshire, nor any county except Kent, I an boas of that very scarce plant, the Orchis barbata fætida of Ray, the Satyrium

hircinum of LINNEUS, which flowers in June and July, and is justly denominated, in the Flora Britannica, the most rare of all the British Orchideæ. It was pointed out to Smith in 1791, by the late Mr. Lewin, at Darent near Dartford; and, had it not been for this fortunate discovery, we must have relied, as we have done for more than a century, upon the sole authority of the diligent and accurate RAY.

- O. bulbis indivisis, nectarii labio trifido pyramiæquali integerrimo superne bicorni: cal- dalis, cari elongato filiformi.
- O. Lip of the nectary 2 horned, 3 cleft; segments equal, very entire: horn long: petals somewhat spear shaped.
- PYRAMIDAL ORCHIS. LATE-FLOWERING ORCHIS. Dry pastures and meadows in a calcareous soil; not very common. Southwell; in a lane, the foot-road between Winkburn and Kirklington; Beacon Field sto e-gits, near Newark; Asply; in Mr. Bielby's meadow near Osmanthorpe; in the avenue leading to Norwood. P. June, July.
- O. bulbis indivisis, nectarii labio quadrifido Morio.

 crenulato: cornu obtuso ascendente, petalis conniventibus mutinervibus.
- O. Lip of the Nectary, 4 cleft, finely scolloped: horn blunt, ascending: petals blunt, approaching: lip of the nectary with 3 lobes, the middlemost notched at the end.
- MEADOW ORCHIS Moistish meadows and pastures; frequent. Southwell; Newark. P. May, June.
- O. bulbis indivisis, nectarii labio quadrifido mascula. crenulato; cornu obtuso, petalis exterioribus reflexis trinervibus.
- O. Lip of the nectary 4-lobed, finely scolloped: horn blunt: upper petals turned back.

274 GYNANDRIA. DIANDRIA. Orchis.

- EARLY PURPLE ORCHIS. Meadows and pastures; common. Southwell; Newark; Nottingham; Mansfield.

 P. May.
- ustulata. O: bulbis indivisis, nectarii labio quadrifido punctis scabro, cornu obtuso brevissimo petalis distinctis.
 - O. Lip of the nectary with 4 clefts, rough with dots: horn blunt: petals distinct.
 - DWARF ORCHIS. Dryish meadows and pastures; rare. In a close near Halloughton Wood; Newark and Averham Meadows; in the meadows on the banks of the Trent between Hazleford and Nottingham.

 P. May, June.

* * Bulbis palmatis:

- 2. Bulbs of the root hand-shaped.
- latifolia.O. bulbis subpalmatis, nectarii cornu conico: labio trifido, bracteis flore duplo longioribus.
 - O. Bulbs somewhat hand shaped, straight: horn of the nectary conical: lip with 3 lobes; the lateral ones bent back: floral leaves longer than the flowers.
 - MARSH ORCHES. Moist meadows and pastures, and marshy ground. Newark and Averham Meadows, in a low situation; bog in the Quonce Close, Newark; last close but one before you ascend the hill to the Ice House, Kelham; Parks, Southwell; Gamstone Meadow, near Nottingham. P. May, June.
 - macula. O. bulbis palmatis divaricatis, nectarii corta. nu germinibus breviore: labio trilobo plano, petalis patentibus.
 - O. Bulbs expanding: horn of the nectary shorter than the germen: lip flat: petals on the back upright.

GYNANDRIA. DIANDRIA. Satyrium. 275

- SPOTTED PALMATE ORCHIS. Woods and rich meadows; common. Southwell; Kirklington; Gloses adjoining Wernham Wood. P. June, July.
- O. bulbis palmatis, nectarii cornu setaceo conopgermminibus duplo longiore: labio trifido sea: integerrimo.
- O. Horn of the nectary bristle-shaped, longer than the germen: lip cloven into 3: two of the petals very much expanding.
- AROMATIC OR CHIS. Meadows and pastures; rather rare. Road side of Bulwell hall, in a low situation; side of a water near Kicklington mill; In a meadow on the left-hand side the bridge which separates Halloughton and Thurgarton parishes; Gamston Meadow, near Nottingham; Averham Meadow, near Newark. P. June.
- SATYRIUM. Smith. 927. With. 29. Nectarium inflato-didymum, pone florem. Nectary behind the flower; inflated, roundish.
- S. bulbis palmatis, foliis ovatis obtusiusculis, viride. nectarii labio lineari trifido; lacinia intermedia minima.
- S. Bulbs hand-shaped: leaves oblong, blunt: ltp of the nectary strap-shaped, 3-cleft; the middle segment indistinct.
- FROG SATYRION. Meadows and pastures in gravelly soil; rather rare. Cotton-mill meadow, Southwell: Newark and Averham meadows, but not plentiful; Mr. Willimot's meadow, at Normanton near Southwell; a close near Thorney moor holt, and by the side of Westhorpe dumble near Southwell; in the closes at the bottom of Oxton hill, by the foot path leading to the village.

 P. June, July.

OPHRYS. Smith: 931. With. 32. Nectarium subtus subcarinatum, deslexum.

276 GYNANDRIA. DIANDRIA. Ophrys.

Nectary slightly keeled underneath.

- Nidus. O. bulbis fibroso-fasciculatis, caule vaginato avis. aphyllo, nectarii labio bifido.
 - O. Bulbs fibrous, bundled: stem sheathed, leafless: lip of the nectary cloven.
 - BIRD'S-NEST OPHRYS. Woods and shady places; very rare. Eperstone woods; Miss Coape Sher-Brooke. Lound woops; upper left-hand quarter, near Eakring; Brockwood-hill woods, near Thurguston.

 P. May, June.
- evata. O. bulbis fibrosis, caule bifolio, foliis elliptiticis, nectarii labio lineari bifido.
 - O. Bulb fibrous: stem with two leaves: leaves egg-shaped: lip of the nectary cloven.
 - COMMON TWAY BLADE. Woods and moist shady thickets; not unfrequent. Newark and Averham meadows; and in the following woods, Eperstone, Oxton, Colwick, Ossington, Flintham, and Wernham.

P. June.

- muscifera. O. bulbis subrotundis, caule folioso, nectarii labio quadrilobo elongato convexiusculo subpubescente, columna obtusa.
 - O. Bulbs roundish; stem leafy; lip of the nectory convex, cloth like, with 3 divisions, the middle segment cloven.
 - FLY OPHRYS, or ORCHIS. Meadows and pastures in a calcareous soil; but rare. Bulwell Lime Quarries, near Nottingham. Mrs. Padley. Aspley Grounds. Deering. P. June.
 - apifera. O. bulbis subrotundis, caule folioso, nectarii labio convexo villoso quinquefido: lacinia terminali recurvata subulata.

GYNANDRIA. DIANDRIA. Serapias. 277

- O. bulbs roundish: stem leafy: lip of the nectary with 5 lobes, the lobes bent in underneath, shorter than the petals.

SERAPIAS. Smith. 942. With. 40.

Nectarium ovatum, gibbum, labio ovato.

- Bloss. 6 petals expanding. Nectary egg-shaped, bulging. Lip egg-shaped. Caps. beneath, 1-celled, 3-valved.
- S. foliis ovatis amplexicaulibus, floribus cer-latifolia, nuis, labio integerrimo acuminato petalis breviore.
- S.. Leaves egg-spear-shaped, embracing the stem: flowers nearly horizontal: lip pointed, entire, rather shorter than the petals.
- BROAD-LEAVED HELLEBORINE. Woods, groves, and hedges. Eperstone Wood; Loundes Wood, near Eakring; Oxton-Wood; and in a little wood on the hill between Ossington and Scarthingmoor; Wernham Woods.

 P. July, August.
- S. foliis lanceolatis amplexicaulibus, floribus paluscernuis, labio crenato obtuso petalis æquali. tris.
- S. Leaves spear-shaped, embracing the stem: flowers nearly-horizontal: lip scolloped, blunt, longer than the petals.
- S. longifolia. With.

278 GYNANDRIA. DIANDRIA. Serapias.

MARSH HELLEBORINE Marshy and watery places.

Boggy ground in a close at Halam Beck, near Southwell; Edingley Moors; near Kirklington Mill; in a moist close at Coddington.

P. July, Aug.



Classis XXI.

MONOECIA.

Flores masculi et fæminei in eadem planta.

DIANDRIA.

Stamina 2.

LEMNA. Masc. Cal. monophyllus. Cor. nulla. Fæm. Cal. monophyllus. Cor. nulla. Pist. quatuor: Sem. quatuor.

LEMNA. Male. Cal. 1 leaf. Bloss: none. Fæm. Cal. monophyllus. Cor. nulla. Stylus 1. Caps. polysperma.

LEMNA. M. Calyx 1 leaf. Bloss. none. F. Capsule 1-celled.

TRIANDRIA.

Stamina 3.

SPARGANIUM. Masc. Cal. triphyllus. Cor. nulla. Fæm. Cal. triphyllus. Cor. nulla. Drupa exsucca, monosperma.

B b 2

280 MONOECIA. TETRANDRIA.

- SPARGANIUM. Catkin roundish. Cal. 3 leaves. Bloss. none.
- F. Summit 2 cleft. Drupa juiceless, with 1 or 2 seeds. CAREX. Masc Amenium imbricatum. Cal. gluma univalvis. Cor. nulla.
- Fæm. Ament. imbricatum. Cal. gluma univalvis. Cor. nulla. Stigmata 2 vel 3. Semen arillo ventricoso tectum.
- CAREX. Catkin spike-like, tiled with hushs. Cal. 1 leaf. Bloss. none.
- F. Nectary inflated; with 2 or 3 teeth. Summits 3, rarely 2 Seed 1, suting on the hair-like down.
- TYPHA. Masc. Ament. cylindraceum, pilosum. Anth. subternæ in filamento communi.
- Fæm. Ament. cylindraceum. Sem. 1, pedicello pap-
- TYPHA. Catkin cylindrical. Bloss. none.
- M. Cal. indistinct, 3-leaved.
- F Carkins under the male flowers; Cal. soft hairs. Seed 1, sitting on the hair-like down.

TETRANDRIA.

Stamina 4.

- URTICA. Masc. Cal. tetraphyllus. Cor. nulla. Germinis rudimentum cyathiforme.
- Fæm. Cal. diphyllus. Cor. nulla. Sem. 1, superum, nitidum.

URTICA. Flowers male and female on the same, rarely on distinct plants.

M. Cal. 4 leaves. Nectary central; glass-shaped.

F. Cal. 2 valves. Seed 1, glossy.

BETULA. Masc. Cal. amenti squama monophylla, trifida, triflora. Cor. quadripartita.

Fæm. Cal. amenti squama monophylla, subtrifida, bi-flora. Styli 2. Semina compressa.

BETULA. Flowers male and female on the same plant. Cal. 3-cleft. Bloss. with 4 divisions.

M. Cal. containing 3 flowers.

F. Cal. containing 2 flowers. Seeds with a membranaceous border on each side.

PENTANDRIA.

Stamina 5.

BRYONIA. Masc. Cal. quinquedentatus. Cor. quinquesida. Filamen. 3. Anth. 5.

Fæm. Cal. quinquedentatus. Cor. quinquesida. Styl: trisidus. Bacca infera, polysperma.

BRYONIA. Stam. and pistil in separate flowers. Bloss. with 5 divisions.

Fem. Style 3-cleft. Berry somewhat globular, with many seeds.

POLYANDRIA.

Stamina 8 vel plura.

- MYRIOPHYLLUM. Masc. Cal. tetraphyllus. Pet. 4. Stam. 8.
- Fæm. Cal. tetraphyllus. Pet. 4. Stigmata 4. sessilia. Sem. 4. corticata.
- MYRIOPHYLLUM. Flowers often M. and F. on the same plant. Cal. 4 leaves. Bloss. none.
- F. Style none. Seeds 4; naked.
- POTERIUM. Masc. Cal. tetraphyllus. Cor. quadripartita. Stam. 30-40.
- Fæm. Cal. tetraphyllus. Cor. quadripartita. Pist. 2. Nux. bilocularis, corticata.
- POTERIUM. Flowers M. and F. on the same plant. Cal. 4-leaved. Bloss. with 4 divisions.
- F. Berry formed of the indurated tube of the blossom.
- Fem. Drupa juiceless; beneath; 1 or 2 celled; formed of the indurated tube of the blossom.
- SAGITTARIA. Masc. Cal. triphyllus. Pet. 3. Stam. fere 24.
- Fæm. Cal. triphyllus. Pet. 3, Pist. plurima. Caps. luprimæ, ventricosæ, monospermæ.
- SAGITTARIA. Flowers M. and F. on the same plant. Cal. 3 leaves. Bloss. 3 petals.
 - Male. Filam. about 24.
 - Fem. Seeds many, naked.
- CERATOPHYLLUM. Masc. Cal. multipartitus. Cor. n. 1.a. Stam. 16-20.

- Fæm. Cal. multipartitus. Cor. nulla. Styli 2 vel 3, trissidi. Sem. 2 vel 3, calyce coriaceo, muricato, tecta:
- CERATOPHYLLUM. Flowers M. and F. on the same plant. Bloss. none. Cal. with many divisions.
- FAGUS. Masc. Cal. campanulatus, quinquefidus. Cor. nulla. Stam. 5—12
- Fæm. Cal. quadrifidus. Cor. nulla. Styli 2 vel 3, tri-fidi. Sem. 2 vel 3, calyce coriaceo, muricato, tecta.
- FAGUS. Flowers Male and Fem. on the same plant. Bloss. none.
- Male. Calyx 5-cleft; bell shaped.
- Fem. Caly x 4-toothed, changing into a capsule; prickly; 4 valved, 2-seeded.
- QUERCUS. Masc. Cal. campanulatus, subquinquesidus. Cor. nulla. Stam. 5—10.
- Fæm. Cal. campanulatus, integerrimus scaber. Cor. nulla. Stylus 1. Stigmata 3. Nux supera, coriacea, monosperma.
- QUERCUS. Flowers Male and Female on the same plant. Bloss. none.
- Male. Calyx mostly 5-cleft. Stamens 5 to 10.
- Fem. Cal. 1 leaf, very entire, rough. Styles 2 to 5. Seed 1, egg-spaped.
- CORYLUS. Masc. Cal. amenti squama trifida. Cor. nulla. Stam. 8.
- Fæm. Cal. bifidus, lacer. Cor. nulla. Styli 2. Nux. ovata, lævis, unilocularis, calyce coriaceo tecta.
- CORYLUS. Flowers Male and Female on the same plant. Bloss. none.

284 MONOECIA. MONODELPHIA. Lemna.

- Male. Catkin tited. Cal. 1 ceaf; 3-cleft, resembling a scale, inclusing 1 flower.
- Fem. Cal. 1 leaf; 2-lipped; ragged. Nut. egg. shaped.
- CARPINUS. Masc. Cal. amenti squama subrotunda. Cor. nulla. Stam. 8-20.
- Fæm. Cal. amenti squama oblonga. Cor. nulla. Germina 2. Styli singulis 2. Nux. angulosa, unilocularis.
- CARPINUS. Flowers Male and Female on the same plant. Bloss. none. Cal. v scale fringed.
- Male. Stamens 10 to 16.
- Fem. Germens 2, with 2 styles on each. Nut egg-shaped.
- ARUM. Spatha monophylla. Cor. nulla. Spadix. androgynus, medio staminiferus, basi germiniferus. Baccæ unilocularis.
- ARUM Sheath 1 leaf, cone-shaped. Sheathed Fruitst. naked above, bearing Pistils below, and Stamens in the middle.

MONADELPHIA.

Filamenta inserne in unum coalita.

- Piuus. Masc. Cal. amenti squama peltata. Cor. nulla. Antheræ squamis adnatæ, sessilis.
 - Fæm. Cal. amenti squama biflora. Cor. nulla. Pist.
 1. Nux. alata.
 - Pinus. Bloss. M. and F. flowers on the same plant. Bloss. none.

MONOECIA. DIANDRIA. Lemna. 285

M. Cal. 4-leaved.

F. a cone-like Catkin. Nuts 2; with a membranaceous wing.

XXI MONOECIA.

11 DIANDRIA.

LEMNA. Smith. 956. With. 43.

Masc. Cal. monophyllus. Cor, nulla.

Fæm. Cal. monophyllus. Cor. nulla. Stylus. Caps. polysperma.

Male, Cal. 1-leuf. Bloss. none,

Fem. Cal. 1 leaf. Bloss, none. Style 1. Caps. 1 or 2-celled; 1 or 2-seeded.

L. foliis petiolatis lanceolatis proliferis.

trisulca.

L. Leaves on leaf-stalks, spear-shaped.

IVY-LEAVED DUCK-WEED. Ditches and stagnant waters. Southwell Hop-yard; Newark Old Trent Ditches. A. June.

L. foliis sessilibus utrinque planiusculis, ra- minor, dicibus solitariis.

L. Leaves sitting, hemispherical underneath: roots solitary.

LESSER DUCK-WEED. Ditches and poinds.
A. June, July.

L. foliis sessilibus, radicibus confertis.

polyr-

L. Leaves sitting: roots crowded.

hirza.

286 MONOECIA. TRIANDRIA. Typha:

GREATER DUCK-WEED. Ditches and slow waters. Ditches in Nottingham Meadow. A. July, Aug.

III TRIANDRIA.

TYPHA. Smith. 959. With. 111.

Masc. Amentum cylindraceum, pilosum. Antheræ subternæ, in silamento communi.

Fæm. Ament. cylindraceum. Sem. unicum, pedicello papposo.

Catkin cylindrical. Bloss. none.

M. Cal. 3 bristle-shaped leaves.

- F. Florets on the same plant below the males. Cal. soft hairs. Seed 1, standing on a fine bristle.
- latifo. T. foliis subensiformibus, spica mascula fæha. mineaque approximatis.
 - T. Leaves somewhat sword-shaped: spike with the male and female florets near together.
 - GREAT CAT'S TAIL, or REED-MACE. Banks of rivers, fish-ponds, and marshes. Kirklington Lawn; Clipstone Waters; a pond between Little Carlton and the road into the fields near Wernham Woods.

 P. July.

SPARGANIUM. Smith. 961. With. 112. Masc. Cal. triphyllus. Cor. nulla.

Fæm. Cal. triphyllus. Cor. nulla. Drupa. exsucca, monosperma.

Flowers crowded into a globular form: male and female on the same plant.

Male. Cal. 3 leaved.

- Fem. Cal. 6-leaved. Summits 1 or 2: Fruit a juiceless Drupa, superiour, of 1 cell, and 1 or 2 seeds.
- S. foliis basi triquetris lateribus concavis, pe-ramo-dunculó communi ramoso, stigmate lineari. sum.
- S. Leaves triangular at the base, the sides concave. fruit-stalks branched.
- BRANCHED BUR REED. Ditches, marshes, banks of rivers, ponds. Ditches on the Kelham Boad beyond Newark Bridge; River Devon, Markham Bridge; Newark.

 P. July, August.
- S. foliis basi triquetris lateribus planis, pe-simplexadunculo communi simplici, stigmate line-ari.
- S. Leaves triangular at the base, the sides flat: fruit-stalks unbranched.
- *UNBRANCHED UPRIGHT RUR-REED. Marshy places, sides of pools, and ditches. The left-hand Ditch beyond Newark Bridge on the Kelhum Road, with S. Rumosum; Drains of a Close near Ollerton Bridge; Gamston Meadow, near Nottingham; and a Pond near Oxton Wood; Thurgarton Lake P. July, Aug.

CAREX. Smith. 963. With. 81.

Masc. Amentum imbricatum. Cal. gluma univalvis. Cor. nulla.

Fæm. Ament. imbricatum. Cal. gluma univalvis. Cor. nulla. Stigmata 2 vel 3. Semen. arillo ventricoso tectum.

288 MONOECIA. TRIANDRIA. Carex.

Catkins tiled. Cal. 1 leaf. Bloss. none. Female florets on the same plant with the male. Capsule inflated; entire or 2-toothed at the end. Summits 2, or 3. Seed 1, cornered, within the nectary (or capsule.)

* Spica unica, simplici.

1 Spike single, not branched.

- dioica. C. spica simplici dioica, fructibus ovatis nervosis adscendentibus margine serrulatis.
 - C. Spike simple: edges of the capsule finely serrated: male and female florets on different plants.
 - COMMON SEPARATE-HEADED CAREX. Turf bogs. Edingley Moor; Oxton Bottoms.
 P. May, June.
- pulica- C. spica simplici androgyna: superne masris. cula, fructibus divaricatis retroflexis utrinque acuminatis, siigmatibus binis.
 - C. Spike simple, with M. and F. florets: M. flowers uppermost: capsules diverging, bent back, tapering at each end.
 - FLEA CAREX. Turfy and muddy bogs. Edingley Moor. P. June.
 - * * Spica composita, androgyna.
 - 2 Spike compound, with both male and female florets.
- stellula- C. spiculis subternis remotis, fructibus dita. vergentibus acuminatis ore integris.
 - C. Spikets generally 3, (or 4) distant: capsules diverging, entire at the 11m, acute.

MONOECIA. TRIANDRIA. Carex.

- LITTLE PRICKLY CAREX. Sides of wet ditches, and marshy places. Oxton Bottoms; Edingley Moor. P. May, June.
- C. spiculis subsenis ovalibus approximatis al- ovalisternis, glumis lanceolatis arillum æquantibus.
- C. Spikets about 6, oval, alternate, near together: scales spear-shaped, acute, as long as the capsule.
- OVAL-SPIKED CAREX. Marshes and watery places; common. P. June.
- C. spiculis solitariis remotis subsessilibus, remota. bracteis longissimis culmum superantibus, arillo subintegro.
- C. Spikets axillary, solitary, distant, nearly sitting: floral-leaf very long: capsules undivided at the end.
- REMOTE CAREX. Moist woods, and sides of wet ditches. Eperstone Wood. P. May, June.
- C. spiculis congestis spicatis: infimis termi-intermenalique fæmineis: intermediis masculis, diaculmo triquetro erecto.
- C. Spike oblong, blunt: spikets many, the upper and lower ones female, the middle ones male: straw upright.
- SOFT BROWN CAREX. Marshes and boggy meadows. Edingley Moor. P. May, June.
- C. spica supradecomposita coarctata obtusa, vulpina. fructibus divergentibus, glumis acuminatis, culmi angulis compressis acutissimis.

290 MONOECIA: TRIANDRIA. Carex?

- C. Spike more than doubly compound, compact, though branched, blunt: spikets male at the top: capsules diverging: straws with very acute angles.
- GREAT-SPIKED CAREX. Marshes and banks of rivers; common. Oxton Bottoms. P. May.
- panicu- C. spica supradecomposita paniculato-ramolata. sa acuta interrupta, fructibus patentibus acuminatis, culmo acute triquetro.
 - C. Spike (or branched panicle) more than doubly compound, acute: branches alternate, rather distant: capsules expanding: straw 3corned.
 - GREAT PANICLED CAREX. Bogs and watery places. Banks of the river Greet. P. June.
- sylvati- C. vaginis pedunculo duplo brevioribus, spicis filiformibus laxiusculis nutantibus, fructibus ovatis triquetris rostratis.
 - C. Sheaths short: spikes thread-shaped, limber, pendent: capsules egg-shaped, ending in an awn-like beak.
 - PENDULOUS WOOD CAREX. Woods; common. Oxton Wood. P. May, June.
 - palles. C. vaginis brevissimis, spicis cylindricis pedunculatis: fructiferis pendulis, fructibus ellipticis inflatis obtusis.
 - C. Sheaths extremely short, fem. spikes rather cylindrical, pendent when in fruit: capsules oblong, blunt.
 - ALE CAREX. Moist meadows and pastures; common. P. May, June.

- C. vaginis abbreviatis pedunculo sub-æqualibus. spicis fæmineis subrotundis, fructibus
 rostratis arcuato deflexis, culmo læviusculo.
- C. Sheaths short, inclosing nearly all the fruitstalk: the apper leaf like part diverging, M: spike strap shaped: F. spike roundish: capsules beak-pointed.
- YELLOW CAREX. Marshes and wet meadows; common. Edingley Moor. P. May, June.
- C. vaginis abbreviatis pedunculo sub æqua- præcox. libus, spicis ovatis approximatis, glumis mucronulatis, fructibus subrotundis pube-scentibus.
- C. Sheaths short, inclosing nearly all the fruitstalk: spikes near together: male-spike clubshaped: fem. egg-shaped: capsules roundish, pubescent.
- VERNAL CAREX. On wettish heaths, and poor soiled meadows. Edingley Moor. P. April.
- C. vaginis nullis, spicis fæmineis sessilibus pilulifeconfertis subrotundis, glumis mucronula- ra. tis, fructibus subrotundis villossis.
- C. Sheaths none: male-spike slender, females somewhat globular, sitting, crowded: straw feeble.
- ROUND-HEADED CAREX. Moist heaths and pastures; not uncommon. P. April, May.
- C. vaginis elongatis pedunculo subdimidio panicea. brevioribus, spicis fæmineis laxiusculis remotis, fructibus inflatis, culmo lævi.

292 MONOECIA. TRIANDRIA. Carex.

- C. Lower sheath inclosing about half the fruitstalk, upper ones nearly the whole: spikes slender, upright, far asunder: capsules inflated, bluntish, rather distant.
- PINK-LEAVED CAREX. Moist meadows and pastures; frequent. P. May, June.
- recur- C. vaginis abbreviatis, spicis fæmineis cylinva. dricis pendulis, fructibus elliptico-triquetris scabriusculis, radice repente.
 - C. Sheaths short: fem. spikes nearly cylindrical, pendent: capsules roundish egg-shaped: roots creeping.
 - GLAUCOUS HEATH CAREX. Moist meadows, pastures, heaths, and woods; very common.
 P. May, June.
- caspi- C. digyna, vaginis nullis, spicis sessilibus tosa. cylindricis obtusis, bracteis auriculatis, fructibus persistentibus.
 - C. Summits 2: sheaths none: spikes nearly sitting and cylindrical, blunt: leaves upright, soft.
 - TUFFED-BOG CAREX. Marshes and wet woods; very common. P. May.
 - * * * * Spicis sexu distinctis: masculis pluribus.
 - 4 Spikes male and female: male spikes 2 or more.
- acuta. C. digyna, spicis filiformibus: florentibus cernuis: fructiferis erectis, fructibus ellipticis obtusis apice indivisis.

MONOECIA. TRIANDRIA. Carex. 293

- C. Summits 2: spikes thread-shaped; fem. spikes nodding whilst in flower, upright when ripe: capsules rather acute, entire at the end.
- SLENDER-SPIKED CAREX. Edges of rivers, ponds and dirches; and also in meadows. Banks of the river Greet. P. May.
- C. spicis cylindricis obtusiusculis erectis, glu-paludomis fæminearum aristatis; mascularum ob- sa. tusis, fructibus ellipticis emarginatis.
- C. Spikes oblong, bluntish: scales of the males blunt, of the female spear-shaped: capsules egg-spear shaped, slightly toothed at the end.
- LESSER COMMON CAREX. Marshes and banks of wet ditches, often found with C. riparia. WITH. Banks of the Greet. P. May.
- C. spicis erectis: masculis triquetris: fæmi-riparia. neis cylindricis, giumis omnibus acuminatis, fructibus rostratis bifurcis.
- C. Spikes oblong, acute: scales of the male spear-shaped of the female tapering to an awn-like point: capsules egg-spear-shaped. cloven into 2 teeth at the ena.
- GRUAT COMMON CAREX. Fdges of rivers, ponds and ditches. Banks of the river Greet.
 P. April, May.
- C. spicis fæmineis cylindricis elongatis sub- ampullasessilibus, viginis nultis, fructibus inflatis cia. rostro lineari bafurco.
- C. Spikes thread shaped, the males thinnest, females cylindrical upright: capsules inflated, globular, awn-beaked, diverging.

294 MONOECIA. TETANDRIA. Betula.

SLENDER-BEAKED BLADDER CAREX. Bogs and marshy watery places; but not very common. Near the Cotton Mill, Southwell. P. May.

hirta. C. pilosa, spicis abbreviatis cylindricis remotis, vaginis pedunculo subæqualibus, glumis aristatis, fructibus hirtis.

C. Hairy: all the spikes oblong; female spikes far asunder, sheathed: capsules hairy.

HAIRY CAREX. Meadows and pastures, in wet or marshy places. Southwell. P. May, June.

IV TETRANDRIA

BETULA. Smith 1011. With 206.

Masc. Cal. amenti squama monophylla, trifida, triflora. Cor. quadripartita.

Fem. Cal. amenti squama monophylla, subtrifida, biflora Styli duo. Semina compressa.

Male and female flowers on the same plant. Cal. 1 leaf, with 3 or 5 clefts. Bloss. with 4 divisions.

Male Cal. 3-flowered.

Fem. Cal. 2 flowered. Seeds 2 or 3.

alba. B. foliis ovatis acutis serratis glabriusculis.

B. Leaves triangular-spear-shaped, acute, smooth, doubly servated.

COMMON BIRCH. Woods and moist hedges. New-ark; Southwell; Mansfield. T. April, May.

- B. pedunculis ramosis, foliis subrotundo-cu- Alnus, neiformibus repandis serratis glutinosis: axillis venarum subtus villosis.
- B. Fruit-stalks branched, wedge-shaped, very blunt: leaves roundish, glutinous: veins underneath, woolly at the base.
- COMMON ALDER. NEAR WATER. Coddington; Newark; Southwell. T. March.
- BUXUS. Smith. 1013. With. 210.
- Masc. Cal. triphyllus. Pet. 2. Germinis rudimentum.
- Fæm. Cal. tetraphyllus. Pet. 3. Styli 3. Caps. trirostris, trilocularis. Sem. 2.
- Male and Female flowers on the same or on a different plant.
- Male Calyx 3-leaved. Bloss. 2 petals. Germen only a rudiment.
- Female Calyx 4 leaved. Bloss 3 petals. Caps. 3 celled, 3-beaked. Seeds 2.

BUXUS.

B. sempervirens. LINN. With.

BOX-FREE. Woods and hedges, in a calcareous soil. S. April.

URTICA. Smith. 1014. With. 201.

Masc. Cal. tetraphyllus. Cor. nulla. Germinis rudimentum cyathiforme.

Fæm. Cal diphyllus. Cor. nulla. Semen 1, superum, nitidum.

Flowers male and female apart. Calyx 4-leaved. Bloss nons.

296 MONOECIA. PENTANDRIA. Bryonia.

Male, Nectary in the centre; glass-shaped.

Fem. Cal. 2, opposite leafits very small. Summit hairy. Seed 1, egg-shaped, shining.

urens. U. folliis oppositis ellipticis subquinquenervibus, racemis subsimplicibus.

U. Leaves opposite, oval: stem branched.

SMAIA NETTLE. Rubbish, cultivated ground; very common.

A. June--- October.

dioica. U. foliis oppositis cordatis, racemis ramosissimis geminis subdioicis.

U. Leaves opposite, heart-shaped: bunches in pairs.

GREAT NETTLE. Ditch banks, and amongst rubbish; common. P. July, August.

v PENTANDRIA.

BRYONIA. Smith. 1018. With. 67.

Mas. Cal 5-dentatus. Cor. 5-fida. Filam. 3.
Anth. 5.

Fæm. Cal. 5-dentatus. Cor. 5-fida. Stylus 3-fidus. Bacca infera, subglobosa, polysperma.

Cal. 5 toothed. Bloss. with 5 divisions.

Male, Anthers united at the base.

Fem. Style 3 cleft. Berry roundish, mostly

dioica. B. foliis palmatis paraque calloso scabris, floribus dioicis.

MONOECIA. POLYAND. Myriophyllum. 297

B. Leaves hand-shaped; rough on both sides, with callous points: male and female flowers on different plants.

RED-BERRIED BRIONY. Hedges and Thickets; common. Newark; Southwell. P. May---Sept.

VI POLYANDRIA.

CERATOPHYLLUM. Smith. 1020. With. 440.

Masc. Cal. multipartitus. Cor. nulla. Stam: 16—20.

Fem. Cal. multipartitus. Cor. nulla. Stigmas subsessile. Sem. 1, corticatum.

Male and fem. flowers on the same plant. Cal. with many divisions. Bloss. none.

Male Stamens twice as many as the segments of the calyx.

Fem. Style none. Nut coaled, without valves.

C. fructibus trispinosis.

demer-

C. Leaves forked, toothed; lower ones strapshaped; upper ones much crowded, tubular
and inflated, beaks of the capsule of equal
length.

COMMON HORNWORT. Ditches and slow streams; not very common. Winkburn. P. September.

MYRIOPHYLLUM. Smith. 1021. With. 389.

298 MONOECIA. POLYANDRIA. Arum.

Masc. Cal. tetraphyllus. Pet. 4. Stam. 8.

Fæm. Cal. tetraphyllus. Pet. 4. Stigmata 4. sessilia. Sem. 4, corticata.

Male and female flowers frequently on the same plant. Cal. 1 leaf, 4 toothed. Petals 4, with claws; soon falling off. Styles none. Nuts. 2 or 4, covered with a coat.

spica- M. floribus interrupte spicatis aphyllis.

tum. M. Spikes interrupted, leafless.

SPIKED WATER-MILLFOIL. Ditches, ponds, lakes and still water. Old Trent Ditches beyond Newark Bridge, on the Kelham road. P. July, Aug.

verticil- M. floribus omnibus axillaribus.

latum. M. Flowers in leafy whirls.

VERTICILLATE WATER-MILLFOIL. Ditches and stagnant waters. In the Trent below Colwick, on the opposite side of the river. DEERING.

P. July, August.

SAGITTARIA: Smith. 1023. With.

Masc. Cal. triphyllus. Pet. 3. S amina fere 24. Fæm. Cal. triphyllus. Pet. 3. Pistilla plurima. Caps. plurimæ, ventricosæ, monospermæ.

Stam. and Pist. in different flowers on the same plant. Cal. 3 leaves. Bloss 3 petals.

Male. Filam about 24.

Fem. Seeds many, naked.

sagitti- S. foliis sagittatis acutis.

folia. S. Leaves arrow-shaped, acute.

COMMON ARROW-HEAD. Ditches and banks of slow rivers. Left hand ditches beyond Newark bridge, on the Kelham Road; ditches in Nottingham Meadow; dit-

ches in Gamstone Meadows; about Markham Bridge, near the Spring Gardens, Newark. P. July, August.

ARUM. Smith. 1023. With. 497.

Spatha monophylla, basi convoluta. Spadix cylindricus, androgynus, supra nudus, medio staminiferus, basi germiniferus. Baccæ uniloculares.

Sheath 1 leaf, cone-shaped. Fruit-st. naked above, bearing germens at its bottom, and stamens in the middle.

A acaule, foliis hastatis integerrimis, spadice maculaclavato obtuso. tum.

A. Leaves halberd-shaped, very entire: spikestalk club-shaped.

CUCKOO POINT. WAKE ROBIN. Shady places ditch banks, and rough grounds, particularly in a clayey soil; frequent. P. May.

POTERIUM. Smith. 1025. With. 493.

Masc. Cal. triphyllus. Cor. quadripartita. Stam. 30-40.

Fæm. Cal. triphyllus. Cor. quadripartita. Pist. 1, sive 2. Nux bilocularis, tubo corollæ indurato corticata.

Stamens and pistils in different flowers. on the same plant. Calyx 4 leaves. Bloss. with 4 divisions.

Male Stam. 30 to 40.

Fem. Drupa juiceless; beneath; 1 or 2 celled; formed of the indurated tube of the blossom.

P. inerme caulibus subangulosis.

SanguisP. Thornless: stems somewhat angular.

D d

300 MONOECIA. POLYANDRIA. Quercus.

COMMON BURNET. In a dry calcareous soil. Thorney Moor Holt, and Greet Meadows, Southwell.

P. July.

QUERCUS. Smith. 1025. With. 387.

Masc. Cal. campanulatus, lobatus. Cor. nulla. Stam. 5—10.

Fæm. Cal. campanulatus, integerrimus, scaber Cor. nulla. Stylus 1. Stigmata 3. Nux supera, coriacea, monosperma.

Male and female flowers on the same plant. Bloss. none.

Male Calyx 5-cleft. Stamens from 5 to 10.

Fem. Cal. 1 leaf very entire, rough. Styles from 2 to 5. Nut egg-shaped, leather-like, of 1 seed, and when ripe, of 1 cell.

- Robur. Q. foliis deciduis oblongis superne laterioribus sinubus acutioribus: angulis obtusis, pedunculis fructiferis elongatis.
 - Q. Leaves on leaf-stalks, oblong, broadest towards the end, indentations rather acute, angles blunt: fruit nearly sitting.
 - COMMON BRITISH OAK. Woods and hedges. The GREEN DALE OAK at WELBECK, the seat of the DUKF OF PORTLAND, has long been justly regarded as a natural curiosity. T. April.

FAGUS. Smith. 1027. With. 443.

Masc. Cal. campanulatus, quinquefidus. Cor. nulla. Stam. 5—12.

Fæm. Cal. quadrifidus. Cor. nulla. Styli 2-3. trifidi. Sem. 2 vel 3, calyce coriaceo, muricato, tecta.

MONOECIA. POLYANDRIA. Carpinus. 301

Male and female flowers on the same-plant. Bloss. none.

Male Calyx 5 cleft; bell-shaped.

Fem. Calyx with 4 teeth, changing into a prickly 4-valved, 2-seeded capsule.

F. foliis lanceolatis acuminato-serratis subtus Castanudis, aculeis fructus compositis implexis. nea.

F. Leaves spear-shaped, with tapering serratures, naked underneath.

CHESNUT TREE. Woods and hedges. T. May.

F. foliis ovatis obsolete serratis, aculeis fruc- sylvatus simplicibus. tica.

F. Leaves egg-shaped; indistinctly serrated.

BEECH TREE. Woods and hedges in a calcareous soil. T. March, April.

CARPINUS. Smith. 1029. With. 442.

Masc. Cal. amenti squama subrotunda. Cor. nulla. Stam. 8—20.

Fæm. Cal. amenti squama oblonga. Cor. nulla. Germina 2. Styli singulis 2. Nux angulosa, unilocularis.

Male and female flowers on the same plant. Bloss. none. Cal. 1 leaf, a fringed scale:

Male. Stamens 18 or 20.

Fem. Germens 2, with 2 styles on each. Nut. egg-shaped.

C. squamis strobilorum planis oblongis denta- Betutis. lus.

C. Scales of the cones flat.

Dda

302 MONOECIA. MONADELPHIA. Corylus.

HORN-BEAM. In woods and hedges. T. May.

CORYLUS. Smith. 1030. With. 378.

Masc. Cal. amenti squama trifida. Cor. nulla. Stam. 8.

Fæm. Cal. bifidus, lacer. Cor. nulla. Styli 22 Nux. ovata, lævis, unilocularis, calyce ventricoso, coriaceo, tecta.

Male and female flowers on the same plant. Bloss. none.

Male, Cal. 1 leaf, 3 cleft, resembling a scale, containing 1 flower.

Fem. Cal. 2-leaved, ragged. Nut egg-shaped.

Avella- C. stipulis ovatis obtusis, foliis subrotundis na. cordatis acuminatis, ramulis pilosis.

C. Stipulæ spear-shaped: twigs hairy.

HAZEL-NUT TREE. Woods and hedges; common. T. March, April.

VII MONADELPHIA.

PINUS. Smith. 1031. With. 615.

Masc. Cal. amenti squama peltata. Cor. nulla. Antheræ squamis adnatæ, sessiles.

Fæm. Cal. amenti squama biflora. Cor. nulla. Nux unilocularis, alata.

Male and fem. flowers on the same plant. Bloss. none.

Male Calyx scales forming a bud standing open.
Anthers naked.

MONOECIA. MONADELPHIA. Pinus. 303

- Fem. Calyx scales forming a cone, 2 flowers in each scale. Pistil 1. Nut of 1 cell, without values, bordered with a membrane.
- P. foliis geminis rigidis, strobilis junioribus sylvespedunculatis recurvis, antherarum cristaex- tris. igua.
- P. Leaves in pairs, rigid: cones egg-conical, mostly in pairs, as long as the leaves: scales oblong, blunt.

SCOTCH FIR. Woods, coppies, plantations.
T. May.



Classis XXII.

DIOECIA.

Flores masculi et fæminei in diversis plantis.

MONANDRIA.

Stamen 1.

Salix purparea et Hei.

DIANDRIA.

Stamina 2.

SALIX. Masc. Cal. amenti squama. Cor. nulla: Glandula baseos nectarifera. Stam. 1—5.

Fæm. Cal. amenti squama Cor. nulla. Stigmata. 2. Caps. supera, unilocularis, bivalvis. Sem. papposa.

M. Cal. scale of a catkin. Bloss. none.

F. Summits 2. Caps. 2-valved. Seeds downy.

TRIANDRIA.

Stamina 3.

EMPETRUM: Masc. Cal. tripartitus. Pet. 3. Stam. capillaria, 3-9.

- Fæm. Cal. tripartitus. Pet. 3. Stigmata 9. Bacca supera, enneasperma,
- EMPETRUM. Male and female flowers on distinct plants. Cal. with 3 divisions Bloss. 3 petals.
- M. Stamens long.
- F. Berry with 9 seeds.
- RUSCUS. Masc. Cal. hexaphyllus. Cor. nulla. Nectarium ovatum, tubulosum, infus stameniferum.
- Fæm. Cal. Cor. et Nect. maris. Stam. nulla. Stylus
 1. Bacca supera, trilocularis. Sem. gemina.
- RUSCUS. Stam. and piscil in separate flowers. Bloss. none. Nectary central, egg-shaped, open at the top.

TETRANDRIA.

Stamina 4.

- MYRICA. Mas. Cal. amenti squama concava. Cor. nulla.
- Fæm. Cal. amenti squama concava. Cor. nulla: Styli 2. Bacca monosperma.
- MYRICA. Flowers male and female on the same or on distinct plants. Catkins scales crescent-shaped. Bloss. none.
- F. Berry with 1 seed.
- VISCUM: Masc. Cal. nullus. Pet. 4. basi dilatata, connata, calycina. Antheræ sessiles, petalis adnatæ.
- Fæm. Cal. submarginatus. Pet. 4, basi dilatata. Sty-lus nullus. Bacca infera monosperma.

- VISCUM. Flowers Male and female on distinct plants.
- M. Cal. with 4 divisions. Anthers fixed to the callyx without any intervening filaments.

PENTANDRIA.

Stamina 5.

- HUMULUS. Masc. Cal. pentaphyllus. Cor. nulla. Anth. apice biporosæ.
- Fæm. Cal. amenti squama obliqua, integra. Cor. nulla. Styli 2. Semen 1. tunicatum, calyce alatum.
- HUMULUS. Seed 1, within a leafy calyx. Flowers male and female on different plants.

M. Cal. 5 leaved.

F. Cal. 1 leaf, entire; with an oblique opening.

HEXANDRIA.

Stamina 6.

TAMUS. Masc. Cal. sexpartitus. Cor. nulla.

Fæm. Cal. sexpartitus. Cor. nulla. Stylus trifidus. Bacca infara, trilocularis. Sem. bina.

- TAMUS. Flowers male and female on distinct plants. Calyx with 6 divisions.
- F. Style 3-cleft. Berry 3-celled: beneath. Seeds 2.

OCTANDRIA.

Stamina 8.

- POPULUS. Masc. Cal. amenti squama lacera. Coriturbinata, obliqua, integra.
- Fæm. Cal. amenti squama lacera. Cor. turbinata, integra. Stigmata 4. Caps. supera, bilocularis, bivalvis. Sem. papposa.
- POPULUS. Flowers in Catkins; M. and F. on distinct plants. Cal. a ragged scale of the catkin. Bloss. turban-shaped; oblique; entire.
- Fem. Summit 4-cleft. Caps 2-celled. Seeds many, downy.

ENNEANDRIA.

Stamina 9.

- MERCURIALIS. Masc. Cal. taipartitus. Cor. nulla. Stam. 9—12. Anth. globosæ, didymæ.
- Fæm. Cal. tripartitus. Cor. nulla. Styli 2. Caps. dicocca, bilocularis. Sem. solitaria.
- MERCURIALIS. Flowers male and female on distinct plants. Cal. with 3 divisions. Bloss. none.
- M. Stam. 9 to 12. Anthers globular; double.
- F. Caps. 2 united; each with 1 cell and 1 seed.

308 DIOECIA. MONADELPHIA. Salix.

- HYDROCHARIS. Masc. Cal. trifidus. Pet. 3. Filamenta tria interiora appendiculata.
- Fæm. Cal. trifidus. Pet. 3. Styli 6. Caps. sexlocularis, polysperma, infera.
- HYDROCHARIS. Flowers male and female on distinct plants. Cal. 3-cleft. Bloss. 3 petals.
- M. Sheath 2 leaved. Filaments, the inner ones bearing a kind of style.
- F. Caps. 6-celled; many-seeded; beneath.

MONADELPHIA.

Filamenta inferne in unum corpus coalita.

- JUNIPERUS. Masc. Cal. amenti squamæ. Cor. nulla. Stam. 3.
- Fæm. Cal. amenti sqamæ pauciores, demum carnosæ, coalitæ in baccam. trispermam.
- JUNIPERUS. M. and Fem. flowers on different plants.
- M. Cal. a catkin. Bloss. none.
- F. Col. with 3 divisions. Bloss. 3 petals. Styles 3. Berry beneath: 3-seeded: the cup at the base.

22 DIOECIA. 1 DIANDRIA.

SALIX. Smith. 1039. With. 45.

Masc. Cal. amenti squama. Cor. nulla. Glandula baseos nectaritera. Stam. 1—5.

Fæm. Cal. amenti squama. Cor. nulla. Stigmata duo. Caps. supera, unilocularis, bivalvis. Sem. pàpposa.

Catkin each scale containing 1 flower. Bloss.

Male. A nectariferous gland at the bottom of the flower.

Female. Style cloven. Caps. 1.cell: 2 valves. Seeds downy.

* Foliis serratis glabriusculis.

1. Leaves smooth serrated.

- 3. Monandra erecta, foliis lanceolatis acumi- Helix. natis serrulatis glabris, stylo elongato filiformi, stigmatibus linearibus.
- S. Leaves strap-spear-shaped: upper leaves oblique; catkins downy; flowers with 1 stamen.

Salix monandra. With. 45:

ROSE WILLOW. Hedges, watery places, and sides of rivers, osier beds. Parks at Southwell S. March, April.

S. triandra, foliis lineari-oblongis serratis trianglabris, germinibus pedicellatis. dra.

S. Leaves oblong-spear-shaped: flower's with 3 stamens. Linn. sometimes 2. Huds.

LONG-LEAVED TRIANDROUS WILLOW. Woods, hedges, and banks of rivers Southwell Water Mill.

S. or T. March -- August.

- fragilis. S. foliis lanceolatis acuminatis undique serratis glaberrimis, petiolis dentato-glandulosis, nectario masculinorum gemino.
 - S Leaves egg-spear-shaped: leaf-stalks toothed with glands.
 - CRACK-WILLOW. Woods, hedges, and banks of rivers. T. April, May.
 - * * Foliis villosis.
 - 2 Leaves very entire, woolly.
- arenaria. S. foliis subintegerrimis ovatis acutis: supra subvillosis; subtus densissime lanatis.
 - S. Leaves hairy, spear-shaped.

Salix lapponum. With 51.

- · DOWNY MOUNTAIN WILLOW. Basford, near Nottingbam. S. June.
- aquatica. S. foliis subserratis obovato-ellipticis pubescentibus planis: subtus glaucescentibus, stipulis rotundatis dentatis.
 - S. Leaves oblong-egg-shaped, somewhat woolly underneath: stipulæ half-heart-shaped.

Salix cinerea. - With. 54.

- COMMON WILLOW, WATER SALLOW, Hedge rows, banks of rivers, ditches, and in woods; very common. Newark; southwell. S. April.
- caprea. S. foliis ovatis acuminatis serratis undulatis: subtus tomentosis, stipulis sublunatis, capsulis ventricosis.
 - S. Leaves egg-shaped, wrinkled, cottony underneath, waved, toothed towards the end.
 - GREAT ROUND-LEAVED SALLOW. Woods and hedges; common. S. April.

- S. foliis lanceolato-oblongis acuminatis undu-acumilatis denticulatis: subtus tomentosis, stipu-nata: lis reniformibus, capsulis ovato-subulatis.
- S. Leaves egg-oblong, cottony underneath; upper ones entire, lower ones scolloped.
- LONG-LEAVED SALLOW. Thickets and wet places.
 S. April.
- S. foliis lanceolato-linearibus longissimis acu-viminaminatis integerrimis subtus sericeis, ramis lis. virgatis, stylo elongato.
- S. Leaves spear-strap-shaped, very long, a-cute, silky underneath: branches rod-like.
- COMMON OSIER. Willow beds, woods and hedges; common. Newark; Southwell. S. April, May.
- S. foliis lanceolatis acuminatis serratis utrinque sericeis; serraturis infimis glandulosis, stigmatibus bitartitis.

alba.

- S. Leaves spear-shaped, tapering to a point, serrated, downy on both sides: the lower-most serratures glandular.
- COMMON WHITE WILLOW. Woods, hedge-rows, wet meadows and pasture land; common.

II TRIANDRIA.

EMPETRUM. Smith. 1072. With. 176. Masc. Cal. tripartitus. Pet. 3. Stam. capillaria, 3—9.

312 DIOECIA. TRETRANDRIA. Viscum.

Fæm. Cal. tripartitus. Pet. 3. Stigmata 9.
Bacca supera, enneasperma.

Mand F. flowers on separate plants. Calyx with 3 divisions. Bloss. 3 petals.

Male. Stam. long. 1em. Berry with 9 seeds. nigrum. É. caulibus procumbentibus.

E. Stems trailing.

BLACK, CROW, or CRAKE-BERRY. Heaths, both in the driest and most barren rocky soils; not very common. Sherwood Forest, near Mansfield.

S. May.

III TETRANDRIA.

VISCUM. Smith. 1074 With. 203:

Mesc. Cal. nullus. Pet. 4. basi dilatata, connata, calycina. Antheræ sessiles, petalis adnatæ.

Fæm. Cal submarginatus. Pet. 4, basi dilatata. Stylus nullus. Bacca infera, monosperma.

Male and female flowers on different plants.
Bloss. none

Male Calyx with 4 divisions. Filam. none. Anthers fixed to the calyx.

Fem. Caiyx 4 leaves. superiour. Style none.
Berry pulpy; 1-celled; 1-seeded. Seed
heart-shiped.

album. V. foliis lanceolatis obtusis, caule dichotomo, capitulis axillaribus.

- V. Leaves spear-shaped, blunt: stem forked: spikes axillary.
- MISSELTOE. Mostly on appletrees; also on the pear, hawthorn, oak, hazel. Orchards at Halam, near Southwell. S. May.
- MYRICA. Smith. 1076. With. 208.
- Masc. Cal. amenti squama concava. Còr.
- Fæm. Cal. amenti squama concava. Cor. nulla. Styli 2. Bacca monosperma:
- Flowers in catkins, on different plants. Cal. 2 leaves. Bloss. none.
- Fem. Drupa 1-celled, superiour. Seed 1. ...
- M. foliis lanceolatis subserratis, caule frue- Gale. ticoso.
- M. Leaves spear-shaped; somewhat serrated; stem shrub-like.
- SWEET GALE. DUTCH MYRTLE. On bogs, in gravelly soils. Sutton Wood, near Retford. Dr. Mason.

IV PENTANDRIA.

HUMULUS. Smith. 1077. With. 277.

Masc. Cal. pentaphyllus. Cor. nulla. Anth: apice biporosæ.

Fæm. Cal. amenti squama obliqua, integra: Cor. nulla. Styli 2. Semen unicum, tunicatum.

314 DIOECIA. HEXANDRIA. Tamus.

Male and female flowers on different plants.
Bloss. none.

Male. Calyx 5-leaved.

Female. Calyx 1-leaved, with a slanting opening, entire. Seed 1, within a leaf-like calyx. Lupulus. HUMULUS.

HOP. In hedges. Cultivated in the North Clays; Southwell; Ollerton; and other parts of the County. P. July.

v HEXANDRIA.

TAMUS. Smith. 1078. With. 344.

Masc. Cal. sexpartitus. Cor. nulla.

Fæm. Cal. sexpartitus. Cor. nulla. Stylus trifidus. Bacca infera, trilocularis. Sem. bina.

Flower's male and female on different plants. Calyx with 6 divisions. Bloss. none.

Fem. Style 3-cleft. Berry 3-celled; beneath. Seeds 2.

commu- T. foliis cordatis indivisis.

mis. T. Leaves heart-shaped: undivided.

BLACK BRYONY. Thickets and hedges; common. P. June.

vi OCTANDRIA.

POPULUS. Smith. 1079. With. 375. Masc. Cal. amenti squama lacera. Cor. turbinata, obliqua, integra.

DIODECIA. ENNEANDRIA. Mercurialis. 315

- Fæm. Cal. amenti squama lacera. Cor. tubinata, integra. Stigmata 4. Caps. supera, bilocularis, bivalvis. Sem. papposa.
- Flowers male and female in catkins on distinct plants. Calyx scales ragged. Bloss. turban-shaped, mouth entire, slanting. Female Summit 4-cleft. Caps. 2 celled. Seeds many, downy.
- P. foliis cordato-subrotundis lobatis dentatis alba. subtus tomentoso-niveis, amentis ovatis.
- P. Leaves nearly triangular, toothed and angular; cottony underneath.
- GREAT WHITE POPLAR. ABELE-TREE. Hedges, woods, and near brooks.

 T. March.
- P. foliis suborbiculatis dentatis utrinque gla-tremubris, petiolis compressis, ramulis hirtis. la.
- P. Leaves circular, toothed and angular, smooth on both sides.
- ASP. ASPEN. TREMBLING POPLAR. Moist woods, and in boggy ground. T. March, April.
- P foliis deltoidibus acuminatis serratis utrin- nigra. que glabris.
- P. Leaves trowel-shaped. tapering to a point, serrated, smooth on both sides.
- BLACK POPLAR. Near rivers and wet shady places.
 T. March.

VII ENNEANDRIA.

MERCULIARIS. Smith. 1083. With. 392.

Masc. Cal. tripartitus. Cor. nulla. Stam. 9-12. Antheræ globosæ, didymæ.

316 DIOECIA. ENNEANDRIA. Hydrocharis.

- Fæm. Cal. tripartitus. Cor. nulla. Styli 2. Caps. dicocca, bilocularis. Sem. solitaria.
- Male and female flowers on different plants. Bloss. none. Calyx with 3 divisions.
- Male Stamens from 9 to 12. Anthers globular, double.
- Fem. Caps. double, 2-celled; 1 seed in each.
- peren- M. caule simplicissimo, foliis scabris, radice nis. repente.
 - M. Stem undivided: leaves rough.
 - PERENNIAL MERCURY. Woods, hedge banks.
 Top of a close in Beacon Field, near Mr. Millington's brick yard; thickets near Oxton Tollbar; Eppersone Woods.

 P. April, May.
- annua. M. caule brachiato, foliis glabris, floribus racemosis, radice fibrosa.
 - M. Stem branching: leaves smooth: flowers in spikes.
 - ANNUAL MERCURY. Waste places and dunghills, about towns and villages; not commen In gardens; Newark, Southwell.

 A. July, Sept.
 - HYDROCHARIS. Smith. 1084. With.
 - Masc. Cal. trifidus: Pet. 3. Filamenta tria interiora appendiculata.
 - Fæm. Cal. trisidus. Pet. 3. Styli 6. Caps. sexlocularis, polysperma, infera.
 - Male and semale flowers on different plants. Cal. 3 clest. Bloss. 3 petals.
 - Male. Sheath 2-leaved. Filaments, the 3 inner ones style-bearing.

Fem. Caps. 6-celled; many-seeded; beneath. HYDROCHARIS.

Morsusrana.

COMMON FROGBIT. Slow streams and wet ditches. Ditches on the road to Kelham, beyond Newark Bridge, particularly about Fidler's Bridge, the foot-road to Kelham. P. July.

VIII MONADELPHIA.

JUNIPERUS. Smith. 1085. With. 599. Masc. Cal. amenti squamæ. Cor. nulla. Stam. 3.

Fæm. Cal. amenti squamæ pauciores, demum carnosæ, coalitæ in baccam trispermam.

Male and female flowers distinct.

Male. Cal. a scale of the catkin. Bloss. none.

Fem. Cal. with 3 divisions. Petals 3. Pistils 3. Drupa juicy, closed, 1 celled, many-seeded; with 3 tubercles formerly the calyx.

I. foliis ternis patentibus mucronato-spinosis commubacca longioribus. nis.

J. Leaves 3 together, expanding; sharp-pointed; longer than the berry.

COMMON JUNIPER. Heaths and commons; but not frequent. S. May.

TAXUS. Smith. 1086. With. 614.

Masc. Cal. nullus. Cor. nulla. Stam. plurima. Anth. peltatæ, oetofidæ.

318 DIOECIA. MONODELPHIA. Taxus.

Fæm. Cal. urccolatus, integerrimus. Stylus nullus. Sem. 1, calyci baccato impositum.

Male and semale flowers on different plants. Bloss. none. Calyx a 4 or 7-leaved bud.

Male. Anthers target-shaped, 8-cleft.

Fam. Style none. Seed 1, surrounded at the base by a pulpy receptacle; the upper half naked.

baccata. T. foliis approximatis.

T. Leaves solitary strap-shaped, prickle pointed near together; receptacle of the male flowers somewhat globular.

YEW-TREE. Woods and hedges. T. March, April.

Classis XXIII.

POLYGAMIA.

Flores hermaphroditici et masculi aut fæminei, strucțura partium inter se diversi, in eadem specie.

MONOECIA.

Fl. hermaphr. et masc. aut fæm. in eadem planta.

ATRIPLEX. Hermaphr. Cal. quinquepartitus, inferus. Cor. nulla. Stam. 5. Stylus bipartitus. Sem. 1, depressum.

Fæm. Cal. diphyllus. Cor. nulla. Stylus bipartitus. Sem. 1, compressum.

ATRIPLEX. Seed 1; compressed. Female flowers on the same plant.

H. Cal. 5 leaves.

F. Cal. 2 leaves.

MONOECIA.

ATRIPLEX. Smith. 1090. With. 274.

320 POLYGAMIA. MONOECIA. Atriplex.

Hermaphr. Cal. quinquepartitus, inferus.

Cor. nulla. Stam. 5. Stylus bipartitus.
Sem. 1, depressum.

Fæm. Cal. diphyllus. Cor. nulla. Stylus bipartitus. Sem. 1, compressum.

Bloss. none. Flowers some hermaphrodite: others fem. on the same plant.

Herm. Calyx 5-leaved. Seed 1, depressed, upright,

Fem. Calyx 2-leaved. Seed 1, compressed.

patula. A caule herbaceo patulo, foliis deltoideolanceolatis subhastatis, calycibus seminum disco submuricatis.

> A. Stem herbaceous: calyx valves of the female flowers large, trowel-shaped, indented.

A. hastata. With. 274.

SPREADING HALBERD-LEAVED ORACH. On rubbish, dunghills, and in kitchen gardens; very common Newark; Southwell. A. June---August.

folia. tis integerrimis, infimis subhastatis, calycibus seminum hastatis læviusculis.

A. Stem herbaceous, spreading: leaves somewhat trowel-spear-shaped: calyx of the fruit toothed on the disc.

A. patula. With. 275.

SPREADING NARROW-LEAVED ORACH. On rubbish, and ditch banks. Newark; Southwell; Mansfield.

A. June---August.

Classis XXIV.

CRYPOGAMIA.

Fructificatio anomala vel obscura.

FILICES.

- Herba frondosa. Fructificatio vel dorsalis, vel terminalis, vel subradicalis.
- Annulatæ; capsulis annulo elastico, valvulis contrario, cinctis.
- Capsules roundish, on pedicles encompassed by a jointed elastic ring; and opening irregularly into 2 parts.
- POLYPODIUM. Fructificationes in punctis subrotundis sparsis. Involucrum nullum.
- POLYPODIUM. Capsules disposed in distinct circular does, on the unaer surface of the leaf.
- ASPIDIUM. Fructf. in punctis subrotundis, sparsis. Invol. umbilicatum.
- ASPIDIUM. Fructifications scattered in roundish dots. Involucrum umbilicated.
- ASPLENIUM. Fructif. in lineolis sparsis. Invol. costam versus dehiscens.

- ASPLENIUM. Capsules disposed in straight and nearly parallel lines on the under surface of the leaf.
- SCOLOP NDRIUM. Frutif. in lineolis giminis, interveniis. Involuçra sibi invicem incumbentia.
- SCOLOPENDRIUM. Fructif. in scattered double lines between veins. Invol. folding lengthways over one another.
- BLECHNUM. Fructif. in lineis continuis, costa tæ adjacentibus. Invol. costam versus dehiscens.
- BLECHNUM. Capsules forming 2 parallel lines near the rib of the leaf.
- PTERIS. Fructif. in linea marginalina. Invol. e margine frondis inflexo, continuo.
- PTERIS. Capsules disposed in a line under the reflected edge of the leaf.
- ADIANTUM. Fruct. in punctis marginalibus. Involucra. e margine frondis inflexo, interrupto.
- ADIANTUM. Capsules forming oval spots under the reflected points of the leaves.
- CYATHEA. Fructif. sparsæa, subrotundæ, calyci apice dehiscenti insidentes.
- CYATHEA. Fructifications scattered, roundish, growing out of an hemispherical calyx.

* * Exannulatæ.

- 2 Capsules without an elastic ring; in spikes.
- EQUISETUM. Frons, amentacea. Semina filamentis 4, poliniferis circumplicata.
- EQUISETUM. Fructifications forming an egg-oblong, terminating spike.

- CRYPOGAMIA. FILICES. Equisetum. 323
- OPHIOGLOSSUM. Spica disticha. Capsula immersæ.
- OPHIOGLOSSUM. Capsules united by an inveloping membrane, so as to form a 2-rowed, jointed spike.
- OSMUNDA. Spica ramosa. Caps. nudæ, globosæ.
- OSMUNDA. Capsules distinct, 2-valved, forming a bunch-like spike.
- LYCOPODIUM. Capsulæ axillares, solitariæ, compressæ.
- LYCOPODIUM. Capsules axillary, solitary, naked, kidney-shaped, with 1 cell, and 2 elastic valves.

FILICES.

EQUISETUM. Smith. 1102. With. 753.

Amentum squamis peltatis, intus floriferis. Involucella biyalvia. Sem. numerosa, nuda, filamentis quatuor polliniferis circumplicata.

Spike club-shaped, egg-oblong. Fructifications target-shaped, opening inwards.

E. stem bearing a spike: leaves compound. cum.

BRANCHED-WOOD-HORSE-TAIL. Moist woods and shady places, near rivulets, and in boggy ground. Newark; Southwell. P. April, May.

324 CRYPTOGAMIA. FILICES. Equisetum.

- arvense. E. caulibus sterilibus undique ramosis: ramis scabriusculis: fructificantibus simplicibus, vaginis distantibus late incisis.
 - E. Fertile stalk leafless: barren stem leafy, lying down: leaves in whirls.
 - CORN HORSE-TAIL. Moist cornfields. Newark; Southwell. P. March, April.
- palustre. E. caulibus fructificantibus angulatis ramosis: ramis simplicibus erectis scabriusculis.
 - E. Stem angular: leaves unbranched.
 - MARSH HORSE-TAIL. Marshy and watery places. Newark; Southwell; Nottingham. P. June, July.
 - fluvia- E. caulibus sterilibus ramosis: ramis scabritile. usculis numerosissimis; fructificantibus simplicibus, vaginis approximatis setaceomultifidis.
 - E. Stem scored: leaves generally unbranched.
 - GREAT WATER HORSE-TAIT. Marshy and watery places, sides of rivers, ditches, pools, and lakes. P. May, June.
 - limosum. E. caule nudiusculo ramisque lævibus, amento terminali.
 - E. Stem frequently naked, smooth.
 - SMOOTH NAKED HORSE-TAIL. In beds of rivers, near the banks; common. P. May.
 - hyemale. E. caule nudo scaberrimo basi subramaso, vaginis albidis basi apice que nigris, amento terminali.
 - E Stem naked, rough, somewhat branched at the base.

CRYPTOGAMIA. FILICES. Ophioglossum. 325

- ROUGH HORSE-TAIL. SHAVE-GRASS. Marshy and watery places; rare. Nettleworth Green, near Mansfield, plentifully. DEERING. P. July.
- OPHIOGLOSSUM. Smith. 1106. With. 761.
- Spica disticha. Capsula bivalves, immersa, transverse dehiscentes.
- Capsules numerous, nearly globular; without an elastic ring; united by a membrane into a spike; opening cross-ways when ripe. Seeds numerous, minute.
- O. fronde ovata avenia.

vulgatum.

- O. Leaf egg-shaped, veinless, bearing the spike.
- COMMON ADDER'S TONGUE. Moist cold meadows and pastures. Newark and Averham Meadows; Southwell Meadows; Foot-stile Closes leading to Oxton, below the hill. Mrs. Picor.
- OSMUNDA: Smith. 1107. With. 762.
- Spica ramosa. Capsulæ bivalves, nudæ, globosæ.
- Spike branched. Capsules distinct, sitting, globular, 2-valved: without an elastic ring; opening either vertically or horizontally.
- O. fronde pinnata basi spicifera: pinnulis lu- Lunanulatis crenatis.

ria.

- O. Stalk solitary: bunch lateral: leaf winged, solitary.
- COMMON MOONWORT. Mountainous meadows and pastures, sometimes in shady woods; but not common. On the Forest near the gateway into Edwinstow, from Retford; a grazing meadow of Mr. Esam's, at Sutton-upon-Trent, between Grassthorpe and Marnham.

326 CRYPTOGAMIA. FILICES. Lycopodium.

- regalis. O. fronde bipinnata apice spicifera: pinnulis cordato-lanceolatis glabris.
 - O. Leaf doubly winged: bunches terminating, more than doubly compound.
 - ROYAL MOONWORT. OSMUND ROYAL. Watery places and boggy marshes; rare. Right hand bank on Stapleford Moor, near the lane leading from the Sleaford Turnpike; 2 plants in the hollows near Potter's Hill, on the Lincoln road from Newark; and in the Carr Closes of Mr. Jacob Ordoyno, at Coddington.

 P. June, July.
 - LYCOPODIUM. Smith. 1109. With 756.

Capsulæ axillares, solitariæ, bivalves, nudæ, subreniformes, compressæ.

Capsules axillary, kidney-shaped, 2-valved, elastic; many-seeded.

- clava- L. foliis sparsis filamentosis; floralibus dilatum. tato-membranaceis, ramis floriferis inferne strigosis: apice bifidis trifidisve.
 - L. Leaves scattered, terminating in threads: spikes cylindrical, on fruit-stalks, in pairs.
 - COMMON CLUB MOSS. Bry places on mountains, heaths, and woods. Mansfield Forest. P. July.
 - POLYPODIUM. Smith. 1113. With. 773.

Fructificationes in punctis subrotundis sparsis, non marginalibus. Involucrum nullum.

Capsules disposed in distinct circular dots on the under surface of the leaf.

- * Fronde pinnatifida.
 - 1. Leaves wing cleft.
- vulgare. P. fronde pinnatifida: lobis oblongis subserratis obtusis, radice squamata.

CRYPTOGAMIA. FILICES. Aspidium. 327

P. Lobes oblong, somewhat serrated, blunt: root scaly.

COMMON POLYPODY. On old walls, shady places, and at the roots of trees; not uncommon. Walls of the Palice, at Southwell.

P. May, Oct.

* * Fronde supradecomposita.

2. Leaf triply winged.

- P. fronde ternata bipinnata patulo-deflexa; Dryoplaciniis obtusis subcrenatis, radice filifor- teris. mi.
- P. Stem supporting 3-winged or doubly winged leaves.

TENDER THREE-BRANCHED POLYPODY.

Dry stony places; rare. Near Pleasly Forge.

DEERING. P. July.

ASPIDIUM. Smith. 1118.

Fructificationes in punctis subrotundis, sparsis, non marginalibus. Involucrum umbilicatum, undique fere dehiscens.

Aspidium. Fructifications scattered in roundish dots not marginal. Involucrum umbilicated, bursting almost all round.

Fronde subbipinnata.

Leaves winged; wings deeply wing cleft.

A. fronde bipinnata: pinnulis obtusis serratis, stipite paleaceo, involucris circinatis.

Filix.

Polypodium Filix Mas. With. 775.

P. Leaves almost doubly winged: leasits strapspear-shaped: lobes blunt, finely serrated, stem and mid-ribs chaffy.

328 CRYPTOGAM. FILICES. Asplenium:

- MALE FERN. MALE SHIELD FERN. Woods, heaths, stony places; common. Edingley Hill. P. June, July.
- Filix. A. fronde bipinnata: pinnulis pinnatifidis serfamina. ratis muticis, rachi lævi, involucris reniformibus.
 - A. Leasits strap-spear-shaped, wing-cleft, a-cute: stems smooth upwards.
 - Polypodium Filix Fæmina. With. 778.
 - FEMALE SHIELD-FERN. Moist and shady marshy places, moist rocky woods; Codddington Moor; Combes Wood.

 P. June, July.
 - dilata- A fronde bipinnata: pinnulis pinnatifidis intum. ciso-serratis spinulosis, rachi squamosa: involucro circinato.
 - A. Leafits deeply wing-cleft; segment oblong, blunt, serrated, fringed: clusters of capsules in a double row.
 - Polypodium cristatum. With. 778.
 - GREAT CRESTED SHIELD FERN. Moist woods and shady places, in a gravelly soil, and chinks of moist rocks and old walls: roots of decaying trees. St Anne's Well. Deering.

 P. June, July.
 - ASPLENIUM. Smith. 1126. With. 766.
 - Fructif. in lineolis sparsis. Involucr. e vena lateraliter ortum ducens, interius (sive costam versus) dehiscens.
 - Capsules, disposed in straight and nearly parallel lines on the under surface of the leaf
- Tricho- A. fronde pinnata: pinnis ovato-subrotunmanes. dis crenatis, rachi nitida subtus carinata.

CRYPTOGAM. FILICES. Scolopendrium. 329

- A. Leafits nearly circular, scolloped.
- COMMON MAIDEN-HAIR. SPLEEN-WORT. Old walls, rocks, and shady stony places. Basford Church; Wollaton Park Walls. P. May-- October.
- A. fronde alternatim decomposita: pinnis Ruta, rhomboideo cuneiformibus patentibus apice muraerosis.
- A. Leafits wedge-shaped, finely scolloped.
- WALL-RUE. SPLEEN-WORT. WHITE MAI-DEN-HAIR. Old walls, and moist crevices of rocks. Walls of Gedling Church. P. June---Cet.
- A. fronde subdeltoidea alternatim tripinnata: Adianpinnulis lanceolatis acutiusculis inciso-ser- tumratis.

 nigrum.
- A. Leaves almost triply-winged: wings alternate: leafits spear-shaped, cut-serrated.
- BLACK MAIDEN-HAIR, SPLEEN-WORT, Shady places and old walls Rock holes in Nottingham Park, P. June---October.
- SCOLOPENDRIUM. Smith. 1113. With.
- Fructif. in lineolis sparsis, geminis interveniis. Involuc. superficiaria, sibi invicem longitudinaliter incumbentia, satura longitudinali dehiscentia..
- Invol. superficial, folding lengthways over one another, separating by a longitudinal suture.
- S. fronde simplici cordato lingulata subtus vulgare.
- S. Leaves heart-tongue-shaped; very entire; stalks hairy.

COMMON HART'S TONGUE. Moist shady rocks, mouths of wells, old walls, and in the fissures of rocks. Oxton Bottoms.

P. July.

BLECHNUM. Smith. 1135. With. 765.

Fructif. in lineis longitudinalibus, continuis, costæ adjacentibus. Involucr. superficiarium, continuum, costam versus dehiscens.

Capsules forming 2 parallel lines near the rib of the leaf.

- boreale. B. fronde pinnata glabra: piunis linearibus obtusiusculis integerrimis basi subæqualibus.
 - B. Barren leaves wing-cleft: fruitful leaves winged, narrower; sgements very entire.
 - B. Spicant. With. 765.
 - NORTHERN BLECHNUM. ROUGH SPLEEN-WORT. Groves and moist heaths. Stapleford and Langford Moors.

 P. July.
 - PTERIS. Smith. 1136. With. 764.
 - Fructif. in linea marginali, continua. Involucrum e margine ipsius frondis inflexo, continuum, interius dehiscens.
 - Capsules disposed in a line under the reflected edge of the leaf.
- na. olatis acutiusculis: infimis pinnatifidis; superioribus minoribus.
 - P. Leaves more than doubly compound: leafits winged: wings spear-shaped; the lowermost wing-cleft; the upper ones small.

COMMON BRAKES. Heaths and woods; common. P. July.

CYATHEA. Smith. 1138.

Fructif. sparsæ, subrotundæ, calici hemisphærico, apice dehiscenti absque operculo, insidentes.

Fructifications scattered, roundish, growing out of an hemispherical calyx, which bursts at the top without an operculum.

C. fronde bipinnata: pinnulis pinatifidis in- fragilis. ciso-serratis, floribus sparsis, calyce lacero, rachi alata.

C. Wings spear-shaped; leafits with a few irregular teeth towards the end: stem very stender and bristle.

Polypodium fragile. With. 779.

BRITTLE CUP-FERN. Dry stony places. On the walls of Oxton Church. Miss Places. P. June, July.



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